

# NACOmatic

Effective: 26-Aug-2010

Expires: 23-Sep-2010



(Your Airplane Picture Here)

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ND Min	Alt#1	-	5
ND Min	Rdr#1	-	11
ND Min	TO#1	-	14
	06D	-	173
	08D	-	178
	2C8	-	47
	2D5	-	169
	3H4	-	117
	46D	-	41
	4V4	-	167
	5H4	-	109
	5N8	-	43
	7K5	-	130
	96D	-	190
	BAC	-	182
	BIS	-	28
	BPP	-	38
	BWP	-	186
	D05	-	79
	D09	-	36
	D50	-	52
	D55	-	135
	D60	-	180
	DIK	-	64
	DVL	-	54
	FAR	-	69
	GAF	-	82
	GFK	-	85
	GWR	-	105
	HBC	-	164
	HEI	-	115
	HZE	-	112
	ISN	-	195
	JMS	-	120
	K74	-	132
	MIB	-	140
	MOT	-	152
	PMB	-	171
	RDR	-	95
	RUG	-	175
	S25	-	192
	S32	-	49
	Y19	-	138

ND Mins - Alternates #1	-	5
ND Mins - Radar #1	-	11
ND Mins - Take-Off #1	-	14
BISMARCK .....	BIS	28
BOTTINEAU .....	D09	36
BOWMAN .....	BPP	38
CARRINGTON .....	46D	41
CASSELTON .....	5N8	43
CAVALIER .....	2C8	47
COOPERSTOWN .....	S32	49
CROSBY .....	D50	52
DEVILS LAKE .....	DVL	54
DICKINSON .....	DIK	64
FARGO .....	FAR	69
GARRISON .....	D05	79
GRAFTON .....	GAF	82
GRAND FORKS .....	GFK	85
GRAND FORKS .....	RDR	95
GWINNER .....	GWR	105
HARVEY .....	5H4	109
HAZEN .....	HZE	112
HETTINGER .....	HEI	115
HILLSBORO .....	3H4	117
JAMESTOWN .....	JMS	120
KENMARE .....	7K5	130
KINDRED .....	K74	132
LANGDON .....	D55	135
MANDAN .....	Y19	138
MINOT .....	MIB	140
MINOT .....	MOT	152
MOHALL .....	HBC	164
NORTHWOOD .....	4V4	167
OAKES .....	2D5	169
PEMBINA .....	PMB	171
ROLLA .....	06D	173
RUGBY .....	RUG	175
STANLEY .....	08D	178
TIOGA .....	D60	180
VALLEY CITY .....	BAC	182
WAHPETON .....	BWP	186
WALHALLA .....	96D	190
WATFORD CITY .....	S25	192
WILLISTON .....	ISN	195



INSTRUMENT APPROACH PROCEDURE CHARTS



**IFR ALTERNATE AIRPORT MINIMUMS**

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

**NAME ALTERNATE MINIMUMS**

**ABERDEEN, SD**

ABERDEEN RGNL ..... RNAV (GPS) Rwy 13  
RNAV (GPS) Rwy 31  
RNAV (GPS) Rwy 35  
VOR Rwy 31  
VOR/DME Rwy 13

NA when local weather not available.

**ALBERT LEA, MN**

ALBERT LEA MUNI ..... RNAV (GPS) Rwy 16  
NA when local weather not available.

**ALEXANDRIA, MN**

CHANDLER FIELD ..... RNAV (GPS) Rwy 22  
RNAV (GPS) Rwy 31  
NA when local weather not available.

**AUSTIN, MN**

AUSTIN MUNI ..... RNAV (GPS) Rwy 17  
RNAV (GPS) Rwy 35  
VOR/DME-A  
NA when local weather not available.

**BAUDETTE, MN**

BAUDETTE INTL ..... RNAV (GPS) Rwy 12<sup>1</sup>  
RNAV (GPS) Rwy 30<sup>1</sup>  
VOR/DME Rwy 12  
VOR Rwy 30  
Category C, 800-2 $\frac{1}{4}$ ; Category D, 800-2 $\frac{1}{2}$ .  
<sup>1</sup>NA when local weather not available.

**BEMIDJI, MN**

BEMIDJI RGNL ..... RNAV (GPS) Rwy 13  
RNAV (GPS) Rwy 25  
RNAV (GPS) Rwy 31  
NA when local weather not available.

**BENSON, MN**

BENSON MUNI ..... RNAV (GPS) Rwy 14  
RNAV (GPS) Rwy 32  
NA when local weather not available.

**NAME ALTERNATE MINIMUMS**

**BISMARCK, ND**

BISMARCK MUNI ..... ILS or LOC Rwy 13<sup>1</sup>  
ILS or LOC Rwy 31<sup>2</sup>  
RADAR-1

NA when control tower closed.

<sup>1</sup>ILS, Categories A, B, C, D, E, 700-2. LOC, NA.

<sup>2</sup>ILS, Category D, 700-2. LOC, NA.

**BRAINERD, MN**

BRAINERD LAKES RGNL . ILS or LOC Rwy 23  
RNAV (GPS) Rwy 5  
RNAV (GPS) Rwy 12  
RNAV (GPS) Rwy 23  
RNAV (GPS) Rwy 30  
RNAV (GPS) Rwy 34  
NA when local weather not available.

**BROOKINGS, SD**

BROOKINGS RGNL ..... RNAV (GPS) Rwy 12  
RNAV (GPS) Rwy 30  
NA when local weather not available.

**CANBY, MN**

MYERS FIELD ..... RNAV (GPS) Rwy 12  
RNAV (GPS) Rwy 30  
NA when local weather not available.

**CLOQUET, MN**

CLOQUET CARLTON  
COUNTY ..... RNAV (GPS) Rwy 35  
NA when local weather not available.

**COOK, MN**

COOK MUNI ..... RNAV (GPS) Rwy 31  
NA when local weather not available.

**CROOKSTON, MN**

CROOKSTON MUNI-  
KIRKWOOD FIELD ..... RNAV (GPS) Rwy 13<sup>1</sup>  
RNAV (GPS) Rwy 31<sup>1</sup>  
VOR Rwy 31<sup>2</sup>

<sup>1</sup>NA when local weather not available.

<sup>2</sup>Category A, B, 900-2; Category C, 900-2 $\frac{1}{4}$ .

26 AUG 2010 TO 23 SEP 2010

26 AUG 2010 TO 23 SEP 2010

# ALTERNATE MINS

E2



NAME ALTERNATE MINIMUMS  
**DETROIT LAKES, MN**  
 DETROIT LAKES-  
 WETHING FIELD ..... RNAV (GPS) Rwy 13  
    RNAV (GPS) Rwy 31  
 NA when local weather not available.  
 Category D, 800-2¼.

**DEVILS LAKE, ND**  
 DEVILS LAKE RGNL ..... RNAV (GPS) Rwy 3  
    RNAV (GPS) Rwy 13  
    RNAV (GPS) Rwy 21  
    RNAV (GPS) Rwy 31  
    VOR Rwy 31  
    VOR Rwy 212  
 NA when local weather not available.  
 1Categories A, B, 900-2; Category C, 900-2½;  
 Category D, 900-2¼.  
 2Category C, 800-2¼, Category D, 800-2½.

**DICKINSON, ND**  
 DICKINSON-THEODORE  
 ROOSEVELT RGNL ..... RNAV (GPS) Rwy 14  
    RNAV (GPS) Rwy 32  
    VOR-A  
 NA when local weather not available.

**DODGE CENTER, MN**  
 DODGE CENTER ..... RNAV (GPS) Rwy 16  
    RNAV (GPS) Rwy 34  
    VOR-A  
 NA when local weather not available.

**DULUTH, MN**  
 DULUTH INTL ..... COPTER ILS Rwy 91  
    ILS or LOC Rwy 92  
    ILS or LOC Rwy 273  
    VOR or TACAN Rwy 34  
 1LOC, NA.  
 2ILS, Category E, 900-2½; LOC, Category E,  
 800-2½.  
 3ILS, Category E, 700-2¼; LOC, Category E,  
 800-2¼.  
 4Category E, 800-2¼.

**EVELETH, MN**  
 EVELETH-VIRGINIA  
 MUNI ..... VOR/DME or GPS-A  
 Category C, 800-2¼; Category D, 800-2½.

**FAIRMONT, MN**  
 FAIRMONT MUNI ..... RNAV (GPS) Rwy 13  
    RNAV (GPS) Rwy 31  
    VOR Rwy 13  
    VOR Rwy 31  
 NA when local weather not available.

NAME ALTERNATE MINIMUMS  
**FARGO, ND**  
 HECTOR INTL ..... ILS or LOC Rwy 181  
    ILS or LOC Rwy 361  
    RNAV (GPS) Rwy 182  
    RNAV (GPS) Rwy 362  
    VOR/DME or TACAN Rwy 182  
    VOR or TACAN Rwy 363  
 1ILS, Category E, 700-2¼. LOC, Category E,  
 800-2¼.  
 2Category E, 800-2¼.  
 3Category D, 800-2¼, Category E, 800-2½.

**FERGUS FALLS, MN**  
 FERGUS FALLS MUNI-EINAR  
 MICKELSON FIELD ..... ILS or LOC Rwy 311  
    NDB Rwy 312  
    RNAV (GPS) Rwy 312  
    RNAV (GPS) Rwy 35  
 NA when local weather not available.  
 1ILS, Category D, 700-2¼. LOC, Category D,  
 800-2¼.  
 2Category D, 800-2¼.

**GLENCOE, MN**  
 GLENCOE MUNI ..... RNAV (GPS) Rwy 31  
 NA when local weather not available.

**GRAND FORKS, ND**  
 GRAND FORKS INTL ... ILS or LOC Rwy 35L12  
    LOC BC Rwy 17R13  
    RNAV (GPS) Rwy 9L3  
    RNAV (GPS) Rwy 17R3  
    RNAV (GPS) Rwy 27R3  
    RNAV (GPS) Rwy 35L3  
    VOR Rwy 17R3  
    VOR Rwy 35L3  
 1NA when control tower closed.  
 2ILS, Category E, 700-2¼. LOC, Category E,  
 800-2¼.  
 3NA when local weather not available.

**GRAND MARAIS, MN**  
 GRAND MARAIS/  
 COOK COUNTY ..... RNAV (GPS) Rwy 27  
 NA when local weather not available.

**GRAND RAPIDS, MN**  
 GRAND RAPIDS/ITASCA COUNTY-GORDON  
 NEWSTROM FIELD ..... RNAV (GPS) Rwy 16  
    RNAV (GPS) Rwy 34  
    VOR Rwy 34  
 NA when local weather not available.

**GRANITE FALLS, MN**  
 GRANITE FALLS MUNI/LENZEN-ROE  
 MEMORIAL FIELD ..... RNAV (GPS) Rwy 33  
 NA when local weather not available.

26 AUG 2010 to 23 SEP 2010

26 AUG 2010 to 23 SEP 2010

# ALTERNATE MINS

E3

**NAME** ALTERNATE MINIMUMS  
**HETTINGER, ND**  
HETTINGER MUNI ..... RNAV (GPS) Rwy 30  
NA when local weather not available.  
Category D, 800-2¼.

**HIBBING, MN**  
RANGE RGNL ..... ILS OR LOC/DME Rwy 13<sup>1</sup>  
VOR Rwy 13<sup>2</sup>  
<sup>1</sup>ILS, Categories A, B, C, D, 800-2.  
<sup>2</sup>Categories A, B, 900-2; Category C, 900-2¼;  
Category D, 900-2¾; ILS, 700-2.

**HURON, SD**  
HURON RGNL ..... ILS or LOC Rwy 12<sup>12</sup>  
LOC/DME BC Rwy 30<sup>23</sup>  
RNAV (GPS) Rwy 12<sup>23</sup>  
RNAV (GPS) Rwy 30<sup>23</sup>  
VOR Rwy 12<sup>23</sup>  
<sup>1</sup>ILS, Category D, 700-2¼. LOC, Category D,  
800-2¼.  
<sup>2</sup>NA when local weather not available.  
<sup>3</sup>Category D, 800-2¼.

**INTERNATIONAL FALLS, MN**  
FALLS INTL ..... COPTER ILS or LOC Rwy 31<sup>1</sup>  
ILS or LOC/DME Rwy 13,700-2<sup>2</sup>  
ILS or LOC Rwy 31<sup>2</sup>  
RNAV (GPS) Rwy 13<sup>2</sup>  
RNAV (GPS) Rwy 31<sup>2</sup>  
VOR Rwy 13<sup>23</sup>  
VOR/DME Rwy 31<sup>2</sup>  
<sup>1</sup>LOC, NA; ILS, NA when local weather not  
available.  
<sup>2</sup>NA when local weather not available.  
<sup>3</sup>Category D, 800-2¼.

**JACKSON, MN**  
JACKSON MUNI ..... RNAV (GPS) Rwy 13  
RNAV (GPS) Rwy 31  
NDB Rwy 13  
NA when local weather not available.

**JAMESTOWN, ND**  
JAMESTOWN RGNL ..... RNAV (GPS) Rwy 4  
RNAV (GPS) Rwy 13  
RNAV (GPS) Rwy 22  
RNAV (GPS) Rwy 31  
VOR Rwy 31  
NA when local weather not available.

**LANGDON, ND**  
ROBERTSON FIELD ..... RNAV (GPS) Rwy 14  
RNAV (GPS) Rwy 32  
NA when local weather not available.

**NAME** ALTERNATE MINIMUMS  
**MANKATO, MN**  
MANKATO RGNL ..... RNAV (GPS) Rwy 4  
RNAV (GPS) Rwy 15  
RNAV (GPS) Rwy 22  
RNAV (GPS) Rwy 33  
VOR Rwy 15  
VOR Rwy 33  
NA when local weather not available.

**MAPLE LAKE, MN**  
MAPLE LAKE MUNI ..... VOR-A  
NA when local weather not available.

**MARSHALL, MN**  
SOUTHWEST MINNESOTA RGNL MARSHALL/  
RYAN FIELD ..... RNAV (GPS) Rwy 12  
VOR Rwy 12  
NA when local weather not available.

**MINNEAPOLIS, MN**  
AIRLAKE ..... VOR Rwy 12  
NA when local weather not available.  
Category D, 800-2¼.

ANOKA COUNTY-BLAINE AIRPORT  
(JANES FIELD) ..... ILS or LOC/DME Rwy 27  
RNAV (GPS) Rwy 9  
RNAV (GPS) Rwy 18  
RNAV (GPS) Rwy 27  
VOR Rwy 9  
VOR/DME Rwy 27  
NA when local weather not available.

CRYSTAL ..... RNAV (GPS) Rwy 14L  
NA when local weather not available.

FLYING  
CLOUD ..... COPTER ILS or LOC Rwy 10R<sup>1</sup>  
ILS or LOC Rwy 10R<sup>1</sup>  
RNAV (GPS) Rwy 10L  
RNAV (GPS) Rwy 28R  
VOR Rwy 10R  
VOR/DME Rwy 36  
NA when local weather not available.  
<sup>1</sup>NA when control tower closed.

26 AUG 2010 to 23 SEP 2010

26 AUG 2010 to 23 SEP 2010

## ALTERNATE MINS

E4



NAME ALTERNATE MINIMUMS

## MINNEAPOLIS, MN (CON'T)

MINNEAPOLIS-ST. PAUL INTL/

WOLD CHAMBERLAIN . ILS or LOC Rwy 12L<sup>2</sup>ILS or LOC Rwy 12R<sup>1</sup>ILS or LOC Rwy 30L<sup>1</sup>ILS or LOC Rwy 30R<sup>2</sup>ILS or LOC Rwy 35<sup>3</sup>LOC Rwy 4<sup>4</sup>LOC Rwy 22<sup>4</sup>RNAV (GPS) Rwy 4<sup>4</sup>RNAV (GPS) Rwy 12L<sup>5</sup>RNAV (GPS) Rwy 12R<sup>4</sup>RNAV (GPS) Rwy 22<sup>4</sup>RNAV (GPS) Rwy 30L<sup>4</sup>RNAV (GPS) Rwy 30R<sup>4</sup>RNAV (GPS) Z Rwy 36<sup>6</sup><sup>1</sup>ILS, Category D, 700-2; Category E, 900-3.

LOC, Category E, 900-3.

<sup>2</sup>ILS, Categories A, B, C, 700-2; Category D,

700-2½; Category E, 900-3. LOC, Category

D, 800-2½; Category E, 900-3.

<sup>3</sup>ILS, Categories A, B, 800-2; Category C, 800-

2½; Category D, 800-2½; Category E, 900-3.

LOC, Category C, 800-2½; Category D, 800-

2½; Category E, 900-3.

<sup>4</sup>Category E, 900-3.<sup>5</sup>Category D, 800-2½; Category E, 900-3.<sup>6</sup>Category D, 800-2½.

## MINOT, ND

MINOT INTL ..... ILS or LOC Rwy 31<sup>12</sup>LOC/DME BC Rwy 13<sup>1</sup>

RNAV (GPS) Rwy 8

RNAV (GPS) Rwy 13

RNAV (GPS) Rwy 26

RNAV (GPS) Rwy 31

VOR Rwy 8<sup>3</sup>VOR Rwy 26<sup>4</sup>

NA when local weather not available.

<sup>1</sup>NA when tower closed.<sup>2</sup>Category E, 1100-3.<sup>3</sup>Categories A, B, 1100-2; Categories C, D,

1100-3.

<sup>4</sup>Categories A, B, 900-2; Category C, 900-2½;

Category D, 900-2½.

## MITCHELL, SD

MITCHELL MUNI ..... RNAV (GPS) Rwy 12

RNAV (GPS) Rwy 30

VOR Rwy 12

VOR Rwy 30<sup>1</sup>

NA when local weather not available.

<sup>1</sup>Categories A, B, 1000-2; Categories C, D,

1000-3.

NAME ALTERNATE MINIMUMS

## MOBRIDGE, SD

MOBRIDGE MUNI ..... RNAV (GPS) Rwy 12<sup>1</sup>RNAV (GPS) Rwy 30<sup>2</sup>

NA when local weather not available

<sup>1</sup>Category D, 900-2½.<sup>2</sup>Category C, 800-2½; Category D, 900-2½.

## MORRIS, MN

MORRIS MUNI-CHARLIE

SCHMIDT FLD ..... RNAV (GPS) Rwy 14

RNAV (GPS) Rwy 32

NA when local weather not available.

## PINE RIDGE, SD

PINE RIDGE ..... RNAV (GPS) Rwy 30

NA when local weather not available.

Categories A, B, 900-2.

## PIPESTONE, MN

PIPESTONE MUNI ..... NDB Rwy 36

RNAV (GPS) Rwy 18

RNAV (GPS) Rwy 36

NA when local weather not available.

## PRESTON, MN

FILLMORE COUNTY ..... RNAV (GPS) Rwy 29

NA when local weather not available.

## RAPID CITY, SD

RAPID CITY RGNL ..... ILS or LOC Rwy 32<sup>1</sup>RNAV (GPS) Rwy 14<sup>2</sup>RNAV (GPS) Rwy 32<sup>2</sup>VOR or TACAN Rwy 14<sup>2</sup>VOR or TACAN Rwy 32<sup>2</sup>

NA when local weather not available.

<sup>1</sup>ILS, Category D, 700-2; Category E, 800-2½.

LOC, Category E, 800-2½.

<sup>2</sup>Category E, 800-2½.

## RED WING, MN

RED WING RGNL ..... RNAV (GPS) Rwy 27

NA when local weather not available.

Categories A, B, 1100-2; Category C, 1100-3.

## REDWOOD FALLS, MN

REDWOOD FALLS

MUNI ..... RNAV (GPS) Rwy 30

VOR-A

Category D, 800-2½.

NA when local weather not available.

## ROCHESTER, MN

ROCHESTER INTL ..... ILS or LOC Rwy 13

ILS or LOC Rwy 31

COPTER ILS or LOC Rwy 31

NA when control tower closed.

26 AUG 2010 to 23 SEP 2010

26 AUG 2010 to 23 SEP 2010



# ALTERNATE MINS

E5



NAME ALTERNATE MINIMUMS  
**ROSEAU, MN**  
 ROSEAU MUNI/  
 RUDY BILLBERG FIELD . RNAV (GPS) Rwy 16  
 RNAV (GPS) Rwy 34  
 NA when local weather not available.

**ST. CLOUD, MN**  
 ST. CLOUD RGNL . ILS or LOC/DME Rwy 13<sup>123</sup>  
 RNAV (GPS) Rwy 5<sup>1</sup>  
 RNAV (GPS) Rwy 13<sup>1</sup>  
 RNAV (GPS) Rwy 23<sup>1</sup>  
 RNAV (GPS) Rwy 31<sup>1</sup>  
 VOR/DME Rwy 13<sup>12</sup>  
 VOR Rwy 31<sup>12</sup>

<sup>1</sup>NA when local weather not available.

<sup>2</sup>NA when control tower closed.

<sup>3</sup>ILS, Categories A, B, C, D, 700-2.

**ST. PAUL, MN**  
 ST. PAUL DOWNTOWN HOLMAN  
 FIELD ..... ILS or LOC Rwy 14<sup>12</sup>  
 ILS or LOC Rwy 32<sup>13</sup>  
 RNAV (GPS) Rwy 14<sup>3</sup>  
 RNAV (GPS) Rwy 32<sup>4</sup>

<sup>1</sup>NA when local weather not available.

<sup>2</sup>ILS, LOC, Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

<sup>3</sup>Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

<sup>4</sup>Categories A, B, C, 900-2½; Category D, 900-2¾.

**SIOUX FALLS, SD**  
 JOE FOSS FIELD ..... ILS or LOC Rwy 3<sup>12</sup>  
 ILS or LOC Rwy 21<sup>1</sup>  
 RADAR-1<sup>3</sup>  
 VOR or TACAN Rwy 15<sup>4</sup>  
 VOR/DME or TACAN Rwy 33<sup>3</sup>

<sup>1</sup>NA when control tower closed.

<sup>2</sup>LOC, NA.

<sup>3</sup>Category E, 800-2¾.

<sup>4</sup>Category E, 900-3.

**SOUTH ST. PAUL, MN**  
 SOUTH ST. PAUL MUNI-RICHARD E  
 FLEMING FIELD ..... RNAV (GPS) Rwy 34  
 Category D, 800-2¾.  
 NA when local weather not available.

NAME ALTERNATE MINIMUMS  
**THIEF RIVER FALLS, MN**  
 THIEF RIVER  
 FALLS RGNL ..... RNAV (GPS) Rwy 13  
 RNAV (GPS) Rwy 31  
 VOR Rwy 13  
 NA when local weather not available.

**VERMILLION, SD**  
 HAROLD DAVIDSON  
 FIELD ..... RNAV (GPS) Rwy 30  
 NA when local weather not available.

**WARROAD, MN**  
 WARROAD INTL  
 MEMORIAL ..... RNAV (GPS) Rwy 13  
 RNAV (GPS) Rwy 31  
 NA when local weather not available.

**WASECA, MN**  
 WASECA MUNI ..... RNAV (GPS) Rwy 15  
 NA when local weather not available.

**WATERTOWN, SD**  
 WATERTOWN RGNL ..... LOC/DME BC Rwy 17  
 NDB Rwy 35  
 RNAV (GPS) Rwy 12  
 RNAV (GPS) Rwy 17  
 RNAV (GPS) Rwy 30  
 RNAV (GPS) Rwy 35  
 VOR or TACAN Rwy 17  
 NA when local weather not available.

**WILLISTON, ND**  
 SLOULIN FIELD INTL ..... RNAV (GPS) Rwy 11  
 RNAV (GPS) Rwy 29  
 VOR Rwy 11  
 VOR/DME Rwy 29  
 NA when local weather not available.

**WILLMAR, MN**  
 WILLMAR MUNI-JOHN  
 L RICE FIELD ..... RNAV (GPS) Rwy 13  
 RNAV (GPS) Rwy 31  
 VOR Rwy 13  
 VOR Rwy 31<sup>1</sup>

NA when local weather not available.

<sup>1</sup>Category D, 800-2¾.

26 AUG 2010 to 23 SEP 2010

26 AUG 2010 to 23 SEP 2010

NAME ALTERNATE MINIMUMS

**WINDOM, MN**

WINDOM MUNI ..... **NDB Rwy 17**  
Category C, 800-2¼.

**WINNER, SD**

WINNER RGNL ..... **RNAV (GPS) Rwy 13**  
**RNAV (GPS) Rwy 31**  
**VOR-A**

NA when local weather not available.

**WORTHINGTON, MN**

WORTHINGTON  
MUNI ..... **VOR or GPS Rwy 11**  
Category D, 800-2¼.

**YANKTON, SD**

CHAN GURNEY MUNI ... **RNAV (GPS) Rwy 13<sup>1</sup>**  
**VOR Rwy 13<sup>1</sup>**  
**VOR Rwy 31<sup>2</sup>**
<sup>1</sup>NA when local weather not available.

<sup>2</sup>Category D, 800-2¼.

# RADAR MINS

10238

## RADAR INSTRUMENT APPROACH MINIMUMS

### BISMARCK, ND

Amdt. 3B, AUG 26, 2010 (FAA)

ELEV 1661

### BISMARCK MUNI

RADAR - 126.3 298.9 

				DA/ MDA-VIS	HAT/ HAA	CEIL-VIS		DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
ASR	RWY GS/TCH/RPI	CAT					CAT			
	13	AB		2100-1	445	(500-1)	C	2100-1½	445	(500-1½)
		D		2100-1½	445	(500-1½)				
	31	AB		2100/24	455	(500-½)	C	2100/40	455	(500-¾)
		D		2100/50	455	(500-1)				
	21	AB		2120-1	459	(500-1)	C	2120-1½	459	(500-1½)
		D		2120-1½	459	(500-1½)				
	3	AB		2120-1	459	(500-1)	C	2120-1½	459	(500-1½)
		D		2120-1½	459	(500-1½)				
CIRCLING		A		2180-1	519	(600-1)	B	2220-1	539	(600-1)
		C		2220-1½	559	(600-1½)	D	2280-2	619	(700-2)

Inoperative table does not apply to MALS Rwy 13.

### DULUTH, MN

Amdt. 20, OCT 7, 1999 (FAA)

ELEV 1428

### DULUTH INTL

RADAR - 125.45 255.9

				DA/ MDA-VIS	HAT/ HAA	CEIL-VIS		DA/ MDA-VIS	HAT/ HAA	CEIL-VIS
ASR	RWY GS/TCH/RPI	CAT					CAT			
	3	ABC		1820-1	400	(400-1)	D	1820-1½	400	(400-1½)
		E		1820-1½	400	(400-1½)				
	27	AB		1860/24	439	(500-½)	C	1860/40	439	(500-¾)
		DE		1860/50	439	(500-1)				
	21	AB		1860-1	440	(500-1)	C	1860-1½	440	(500-1½)
		DE		1860-1½	440	(500-1½)				
	9	AB		1880/24	452	(500-½)	C	1880/40	452	(500-¾)
		DE		1880/50	452	(500-1)				
CIRCLING		AB		1920-1	492	(500-1)	C	1920-1½	492	(500-1½)
		DE		1980-2	552	(600-2)				

Category E circling NA southeast of Rwy 3 and 27.

26 AUG 2010 to 23 SEP 2010

26 AUG 2010 to 23 SEP 2010

## RADAR INSTRUMENT APPROACH MINIMUMS

### RADAR MINS

NC-1

10238

N1

# RADAR MINS

10238

## RADAR INSTRUMENT APPROACH MINIMUMS

### ELLSWORTH AFB (KRCA) (Rapid City), SD (Amdt 1, 10210 USAF)

ELEV 3276

RADAR - (E) 119.5 259.1<sup>1</sup>

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
ASR	13 <sup>2</sup>		AB	3820/40	544	(600-¾)
			C	3820/50	544	(600-1)
			D	3820/60	544	(600-1¼)
			E	3820-1½	544	(600-1½)
			AB	3820/40	628	(600-¾)
	31 <sup>2</sup>		C	3820/60	628	(600-1¼)
			D	3820-1½	628	(600-1½)
			E	3820-1¾	628	(600-1¾)
CIR	All Rwy <sup>3</sup>		A	3860-1¼	584	(600-1¼)
			B	3880-1¼	604	(700-1¼)
			C	3880-1¾	604	(700-1¾)
			D	3880-2	604	(700-2)
			E	4040-2¾	764	(800-2¾)

<sup>1</sup>Opr 1200-0400Z++ Mon-Fri. <sup>2</sup>When ALS inop, increase CAT AB RVR to 60 and vis to 1¼, increase CAT CDE vis ½ mile. <sup>3</sup>CAT E circling restricted to 28th BW aircraft only; 28th BW aircraft will remain within class D airspace.

### MANDAN, ND MANDAN MUNI

Amdt. 4, NOV 09, 1995 (FAA)

ELEV 1942

RADAR - 126.3 298.9  NA

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>	<u>CAT</u>	<u>DA/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
ASR	31 13		AB	2360-1	418	(500-1)	CD	2360-1¼	418	(500-1¼)
			AB	2460-1	520	(600-1)	C	2460-1½	520	(600-1½)
			D	2460-1¾	520	(600-1¾)				
			A	2460-1	518	(600-1)	B	2500-1	558	(600-1)
CIRCLING			C	2500-1½	558	(600-1½)	D	2500-2	558	(600-2)

Use Bismarck altimeter setting.

When Bismarck control tower closed, ASR NA.

26 AUG 2010 to 23 SEP 2010

26 AUG 2010 to 23 SEP 2010

## RADAR INSTRUMENT APPROACH MINIMUMS

### RADAR MINS

NC-1

10238

N2



## RADAR INSTRUMENT APPROACH MINIMUMS

## ROCHESTER, MN

Amdt. 8, JAN 15, 2009 (FAA)

ELEV 1317

## ROCHESTER INTL

RADAR - 119.8 251.125 ▽

	RWY	GS/TCH/RP	CAT	DA/	HAT/	CEIL-VIS	CAT	DA/	HAT/	CEIL-VIS
				MDA-VIS	HAA			MDA-VIS	HAA	
ASR	2			ABC 1680-1	363 (400-1)		D	1680-1¼	363 (400-1¼)	
	13			ABC 1640/24	360 (400-½)		D	1640/50	360 (400-1)	
	20			ABC 1660-1	356 (400-1)		D	1660-1¼	356 (400-1¼)	
	31			ABC 1660/24	356 (400-½)		D	1660/50	356 (400-1)	
CIRCLING				A 1720-1	403 (500-1)		B	1780-1	463 (500-1)	
				C 1780-1½	463 (500-1½)		D	1880-2	563 (600-2)	

When control tower closed, procedure NA. For inoperative MALSR, increase S-13 and S-31 Cat D visibility to RVR 6000. Visibility reduction by helicopters NA Rwy 2-20.

## SIOUX FALLS, SD

Amdt. 10A, OCT 3, 2003 (FAA)

ELEV 1429

## JOE FOSS FIELD

RADAR - 125.8 353.6 ▽ ▲

	RWY	GS/TCH/RPI	CAT	DA/	HAT/	CEIL-VIS	CAT	DA/	HAT/	CEIL-VIS
				MDA-VIS	HAA			MDA-VIS	HAA	
ASR	3			AB 1940/24	517 (600-½)		C	1940/50	517 (600-1)	
				DE 1940/60	517 (600-1¼)					
	33			AB 1920-1	497 (500-1)		C	1920-1¼	497 (500-1¼)	
				D 1920-1½	497 (500-1½)		E	1920-1¼	497 (500-1¼)	
	21			AB 1960/24	531 (600-½)		C	1960/50	531 (600-1)	
				D 1960/60	531 (600-1¼)		E	1960-1½	531 (600-1½)	
	15			AB 1960-1	534 (600-1)		C	1960-1½	534 (600-1½)	
				D 1960-1¼	534 (600-1¼)		E	1960-2	534 (600-2)	
CIRCLING				AB 1960-1	531 (600-1)		C	1960-1½	531 (600-1½)	
				D 2040-2	611 (700-2)		E	2300-3	871 (900-3)	

When control tower closed, procedure not authorized.

Category E S-3 visibility increased 1¼ mile for inoperative MALSR.

Category E S-21 visibility increased to 2 miles for inoperative MALSR.

## RADAR INSTRUMENT APPROACH MINIMUMS

INSTRUMENT APPROACH PROCEDURE CHARTS

**IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

**ABERDEEN, SD**

ABERDEEN RGNL (ABR)

ORIG 09239 (FAA)

NOTE: **Rwy 17**, trees 1138' from DER, 432' right of centerline, 41' AGL/1336' MSL. **Rwy 31**, multiple trees beginning 1391' from DER, 326' left of centerline, up to 65' AGL/1360' MSL.

**AITKIN, MN**

AITKIN MUNI-STEVE KURTZ FIELD (AIT)

AMDT 2 96172 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 26**, 300-1. **Rwy 16**, 300-1 or std. with a min climb of 400' per NM to 1500.

DEPARTURE PROCEDURE: **Rwys 16, 26**, climb runway heading to 1700 before turning.

**ALBERT LEA, MN**

ALBERT LEA MUNI (AEL)

ORIG 85241 (FAA)

DEPARTURE PROCEDURE: **Rwys 16, 22**, climb runway heading to 1800 before turning on course.

**ALEXANDRIA, MN**

CHANDLER FIELD (AXN)

DEPARTURE PROCEDURE: **Rwys 4, 13, 22**, when weather is below 200-1, climb runway heading to 1800 before turning.

NAME TAKE-OFF MINIMUMS

**APPLETON, MN**

APPLETON MUNI (AQP)

ORIG-A 10126 (FAA)

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 039° to 2000 before turning right. **Rwy 13**, climb heading 130° to 2500 before turning right. **Rwy 22**, climb heading 219° to 2400 before turning left. **Rwy 31**, climb heading 300° to 2000 before turning left.

NOTE: **Rwy 13**, trees beginning 91' from DER, 464' left of centerline, up to 100' AGL/1134' MSL. Trees beginning 576' from DER, 388' right of centerline, up to 100' AGL/1120' MSL. Tower 2.3 NM from DER, 2.4 right of centerline, 1283' AGL/2318' MSL.

**AUSTIN, MN**

AUSTIN MUNI (AUM)

ORIG 08045 (FAA)

NOTE: **Rwy 17**, Multiple trees beginning 809' from departure end of runway, 663' right of centerline, up to 61' AGL/1285' MSL. **Rwy 35**, Tree 1380' from departure end of runway, 484' right of centerline, 100' AGL/1314' MSL.



10210

**BAUDETTE, MN**

BAUDETTE INTL (BDE)

AMDT 1 10154 (FAA)

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 117° to 1700 before turning northbound.

NOTE: **Rwy 12**, trees, pipes, and markers beginning 61' from DER, 354' right of centerline, up to 100' AGL/1184' MSL. Trees beginning 593' from DER, 138' left of centerline, up to 21' AGL/1100' MSL. Rod on OL tank 4132' from DER, 1233' right of centerline, 120' AGL/1204' MSL. **Rwy 30**, trees beginning 15' from DER, 348' right of centerline, 12' AGL/1096' MSL. Trees beginning 2036' from DER, 532' left of centerline, 64' AGL/1143' MSL.

**BELLE FOURCHE, SD**

BELLE FOURCHE MUNI (EFC)

AMDT 2 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 18, 36**, NA. **Rwy 14**, std. w/min. climb of 240' per NM to 9000 or 1400-3 for climb in visual conditions. **Rwy 32**, std. w/min. climb of 413' per NM to 3900.

DEPARTURE PROCEDURE: **Rwy 14**, for climb in visual conditions: cross Belle Fourche Muni airport at or above 4400 MSL before proceeding on course. **Rwy 32**, climb heading 321° to 3900 before proceeding southbound.

NOTE: **Rwy 14**, trees 651' from departure end of runway, 547' left of centerline, up to 20' AGL/3299' MSL. **Rwy 32**, trees 857' from departure end of runway, 150' left of centerline, up to 20' AGL/3199' MSL. Trees 3880' from departure end of runway, 966' right of centerline, up to 20' AGL/3289' MSL.

**BEMIDJI, MN**

BEMIDJI RGNL (BJI)

AMDT 3 08213 (FAA)

NOTE: **Rwy 7**, vegetation beginning 859' from departure end of runway, 544' right of centerline, up to 62' AGL/1442' MSL. Vegetation beginning 1404' from departure end of runway, 683' left of centerline, up to 44' AGL/1424' MSL. **Rwy 13**, vehicle on road, 541' from departure end of runway, 525' right of centerline, 15' AGL/1398' MSL. **Rwy 25**, poles beginning 1337' from departure end of runway, 205' right of centerline up to 61' AGL/1445' MSL. Trees beginning 1414' from departure end of runway, 254' left of centerline, up to 57' AGL/1441' MSL. Tree 1406' from departure end of runway, 233' right of centerline, 53' AGL/1437' MSL.

**BENSON, MN**

BENSON MUNI (BBB)

AMDT 1 09127 (FAA)

NOTE: **Rwy 14**, numerous trees beginning 838' from DER, 246' right of centerline, up to 33' AGL/1087' MSL. Numerous trees beginning 1232' from DER, 64' left of centerline, up to 69' AGL/1108' MSL. Sign 206' from DER, 198' left of centerline, 19' AGL/1044' MSL. Tower 4884' from DER, 274' right of centerline, 126' AGL/1161' MSL. **Rwy 32**, Tree 2380' from DER, 646' left of centerline, 68' AGL/1107' MSL. Multiple fences beginning 13' from DER, 361' left of centerline, up to 8' AGL/1043' MSL.

**BIGFORK, MN**

BIGFORK MUNI (FOZ)

ORIG -A 10126 (FAA)

TAKE-OFF MINIMUMS: **Rwy 15**, 400-1 or std. with a min. climb of 332' per NM to 1900.

**BISMARCK, ND**

BISMARCK MUNI (BIS)

AMDT 7 01137 (FAA)

DEPARTURE PROCEDURE: **Rwys 3, 31**, climb runway heading to 2500 before proceeding on course.

**Rwys 13, 21**, climb runway heading to 3800 before proceeding south.

**BOTTINEAU, ND**

BOTTINEAU MUNI (D09)

AMDT 1 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb heading 127° to 2200 before turning left. **Rwy 31**, climb heading 307° to 2600 before turning right.

NOTE: **Rwy 31**, street light 116' from DER, 474' left of centerline, 16' AGL/1700' MSL.

**BRAINERD, MN**

BRAINERD LAKES RGNL (BRD)

AMDT 5A 10126 (FAA)

NOTE: **Rwy 12**, multiple trees beginning 165' from DER, 417' left of centerline, up to 78' AGL/1279' MSL.

Multiple trees and vehicle on road beginning 304' from DER, 206' right of centerline, up to 66' AGL/1277' MSL.

**Rwy 16**, multiple trees beginning 1830' from DER, 749' left of centerline, up to 74' AGL/1314' MSL. **Rwy 23**,

multiple trees beginning 1495' from DER, 179' left of centerline, up to 48' AGL/1285' MSL. Tree 2437' from DER, 716' right of centerline, 50' AGL/1279' MSL. **Rwy 30**,

multiple trees beginning 243' from DER, 131' left of centerline, up to 61' AGL/1287' MSL. Multiple trees 48' from DER, 328' right of centerline, up to 59' AGL/1329' MSL. **Rwy 34**, trees beginning 2341' from DER, left

and right of centerline, up to 93' AGL/1293' MSL.

**BRITTON, SD**

BRITTON MUNI (BTN)

AMDT 2 96060 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, 300-1 or std. with a min. climb of 450' per NM to 1600. **Rwy 19**, 300-1.

DEPARTURE PROCEDURE: **Rwy 19**, climb runway heading to 2000 before turning.

**BROOKINGS, SD**

BROOKINGS RGNL (BKK)

ORIG 09015 (FAA)

NOTE: **Rwy 12**, pole and trees beginning 1041' from departure end of runway, 207' left of centerline, up to 65' AGL/1705' MSL. Building 1277' from departure end of runway, 825' right of centerline, 38' AGL/1618' MSL.

**Rwy 17**, vehicle on road 799' from departure end of runway, on centerline, up to 15' AGL/1687' MSL. Trees beginning 906' from departure end of runway, 464' left of centerline, up to 100' AGL/1749' MSL. **Rwy 30**, railroad beginning 547' from departure end of runway, 502' right of centerline, 23' AGL/1626' MSL. Tree 132' from departure end of runway, 433' left of centerline, 20' AGL/1615' MSL. **Rwy 35**, trees 2892' from departure end of runway, 944' right of centerline, up to 100' AGL/1709' MSL.

10210



10210

**CANBY, MN**

MYERS FIELD (CNB)

AMDT 1 10210 (FAA)

NOTE: **Rwy 12**, numerous poles beginning 40' from DER, 421' left and right of centerline, up to 36' AGL/1216' MSL. Truck on roads beginning 134' from DER, 37' left and right of centerline, up to 22' AGL/1202' MSL. Tree 3' from DER, 159' right of centerline, 7' AGL/1187' MSL. **Rwy 30**, numerous trees beginning 726' from DER, 176' left of centerline, up to 70' AGL/1278' MSL. Tree 1338' from DER, 716' right of centerline, 68' AGL/1268' MSL.

**CASSELTON, ND**

CASSELTON ROBERT MILLER RGNL (5N8)

ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 31**, 400-2½ or std. w/a min. climb of 212' per NM to 1400 or alternatively, with standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1700' prior to departure end of runway.

NOTE: **Rwy 13**, railroad 30' from departure end of runway, 505' right of centerline, 23' AGL/945' MSL. Vehicle on road 449' from departure end of runway, 300' left of centerline, 15' AGL/949' MSL. **Rwy 31**, trees 2251' from departure end of runway, 456' left of centerline, up to 100' AGL/1052' MSL.

**CAVALIER, ND**

CAVALIER MUNI (2C8)

ORIG 03191 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, 300-1 or std. with a min. climb of 430' per NM to 1200.

NOTE: **Rwy 16**, grain elevator 3731' from departure end of runway, 284' left of centerline, 168' AGL/1060' MSL.

**CHAMBERLAIN, SD**

CHAMBERLAIN MUNI (9V9)

ORIG 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwys 18, 36**, NA-Environmental.

NOTE: **Rwy 31**, fence 457' from DER, 376' left of centerline, 10' AGL/1705' MSL. Fence 1294' from DER, 424' right of centerline, 10' AGL/1722' MSL. Trees beginning 1763' from DER, 892' left of centerline, up to 100' AGL/1819' MSL. Trees beginning 189' from DER, 41' right of centerline, up to 100' AGL/1819' MSL.

**CLOQUET, MN**

CLOQUET CARLTON COUNTY (COQ)

AMDT 1 80248 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1 or std. with a min. climb of 400' per NM to 1400.

**CROOKSTON, MN**

CROOKSTON MUNI-KIRKWOOD FIELD (CKN)

AMDT 2 07298 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6, 17, 24, 35**, NA-turf runways.

NOTE: **Rwy 13**, tree 1998' from departure end of runway, 587' left of centerline, 94' AGL/970' MSL. Pole 1127' from departure end of runway, 662' left of centerline, 46' AGL/926' MSL.

**CROSBY, ND**

CROSBY MUNI (D50)

ORIG 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-Environmental.

NOTE: **Rwy 12**, hangars and poles beginning 133' from DER, 263' right of centerline, up to 35' AGL/1983' MSL. Vehicle on road 800' from DER, 200' right of centerline, 22' AGL/1967' MSL. **Rwy 30**, power line, 2100' from DER, on centerline, 60' AGL/2011' MSL.

**DETROIT LAKES, MN**

DETROIT LAKES-WETHING FIELD (DTL)

ORIG 05132 (FAA)

TAKE-OFF MINIMUMS: **Rwys 17, 35**, NA.

NOTE: **Rwy 31**, highway 243' from departure end of runway, 267' right of centerline, 15' AGL/1404' MSL. Railroad 534' from departure end of runway, 298' right of centerline, 23' AGL/1411' MSL.

**DEVILS LAKE, ND**

DEVILS LAKE RGNL (DVL)

AMDT 1A 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 31**, 300-1 or std. with a min. climb of 350' per NM to 1600.

NOTE: **Rwy 3**, tree 1528' from DER, 319' left of centerline, 100' AGL/1490' MSL. Tree 1520' from DER, 136' right of centerline, 100' AGL/1489' MSL. **Rwy 13**, bush 266' from DER, 523' left of centerline, 17' AGL/1451' MSL. Road, light pole and antenna on building beginning 95' from DER, 414' right of centerline, up to 17' AGL/1484' MSL. **Rwy 21**, roads beginning 335' from DER, 2' right of centerline, 15' AGL/1447' MSL, multiple poles, trees and towers beginning 552' from DER 355' left of centerline, up to 123' AGL/1548' MSL. **Rwy 31**, road 470' from DER, 424' right of centerline, 15' AGL/1472' MSL. Multiple poles and trees beginning 1180' from DER, 354' left of centerline, up to 49' AGL/1545' MSL.

**DICKINSON, ND**

DICKINSON-THEODORE ROOSEVELT RGNL (DJK)

AMDT 1 05244 (FAA)

DEPARTURE PROCEDURE: **Rwy 25**, climb via heading 250° to 3100 before turning left.

NOTE: **Rwy 7**, road 887' from departure end of runway, on rwy centerline, 15' AGL/2631' MSL.

**DODGE CENTER, MN**

DODGE CENTER (TOB)

ORIG 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, NA-Environmental.

NOTE: **Rwy 16**, trees 3945' from departure end of runway, 1542' left of centerline, 100' AGL/1409' MSL.

26 AUG 2010 to 23 SEP 2010

26 AUG 2010 to 23 SEP 2010

10210

**DULUTH, MN**

DULUTH INTL (DLH)

ORIG 06327 (FAA)

NOTE: **Rwy 3**, multiple trees beginning 21' from departure end of runway, 226' right of centerline, up to 68' AGL/1477' MSL. Multiple trees beginning 246' from departure end of runway, 26' left of centerline, up to 64' AGL/1473' MSL. **Rwy 9**, electrical equipment 207' from departure end of runway, 408' left of centerline, 6' AGL/1425' MSL. **Rwy 21**, tower 3762' from departure end of runway, 410' left of centerline, 92' AGL/1522' MSL. **Rwy 27**, tree 2426' from departure end of runway, 1127' right of centerline, 53' AGL/1522' MSL. Bush and multiple trees beginning 347' from departure end of runway, 484' left of centerline, up to 44' AGL/1533' MSL.

SKY HARBOR (DYT)

ORIG 83174 (FAA)

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1. **Rwy 32**, 1500-2 or std. with a min. climb of 360' per NM to 2300.

DEPARTURE PROCEDURE: **Rwy 14**, northwest departures (260° CW 030°) climb to 2300 via heading 260° or 030° before proceeding on course.

**EAGLE BUTTE, SD**

CHEYENNE EAGLE BUTTE (84D)

ORIG 96228 (FAA)

TAKE-OFF MINIMUMS: **Rwys 13, 31**, 300-1.**ELY, MN**

ELY MUNI (ELO)

AMDT 2 97086 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, 300-1 or std. with a min. climb of 200' per NM to 1600.

DEPARTURE PROCEDURE: **Rwy 30**, northbound departures climb runway heading to 2000 before turning.

**EVELETH, MN**

EVELETH-VIRGINIA MUNI (EVM)

AMDT 2 94118 (FAA)

TAKE-OFF MINIMUMS: **Rwy 32**, 800-2 or std. with a min. climb to 330' per NM to 2300.

DEPARTURE PROCEDURE: **Rwy 27**, northwest departures (270°-050°) climb runway heading to 2200 before turning.

**FAIRMONT, MN**

FAIRMONT MUNI (FRM)

AMDT 3 09127 (FAA)

NOTE: **Rwy 2**, trees beginning 2466' from DER, 1105' right of centerline, up to 100' AGL/1269' MSL. **Rwy 13**, tree 2340' from DER, 1039' left of centerline, 100' AGL/1269' MSL. **Rwy 20**, trees beginning 1640' from DER, 914' right of centerline, up to 100' AGL/1289' MSL. Trees beginning 913' from DER, 449' left of centerline, up to 100' AGL/1299' MSL. **Rwy 31**, trees beginning 954' from DER, 161' left of centerline, up to 100' AGL/1299' MSL. Trees and road beginning 791' from DER, 339' right of centerline, up to 57' AGL/1226' MSL.

**FARGO, ND**

HECTOR INTL (FAR)

AMDT 4 04330 (FAA)

TAKE-OFF MINIMUMS: **Rwys 13, 31**, NA.

NOTE: **Rwy 9**, multiple light poles 1124' from departure end of runway, 305' left of centerline, 20' AGL/927' MSL.

**FERGUS FALLS, MN**

FERGUS FALLS MUNI-EINAR MICKELSON

FIELD (FFM)

ORIG 09239 (FAA)

NOTE: **Rwy 13**, trees beginning 2612' from DER, 128' right of centerline, up to 100' AGL/1269' MSL. Trees beginning 2514' from DER, 42' left of centerline, up to 100' AGL/1259' MSL. **Rwy 17**, trees beginning 1100' from DER 663' right of centerline, up to 100' AGL/1269' MSL. Road 222' from DER, 469' right of centerline, 15' AGL/1173' MSL. **Rwy 35**, trees beginning 2156' from DER, 176' right of centerline, up to 100' AGL/1289' MSL.

**FOSSTON, MN**

FOSSTON MUNI (FSE)

AMDT 1A 10182 (FAA)

DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading to 2000 before turning.

**GETTYSBURG, SD**

GETTYSBURG MUNI (0D8)

AMDT 1 07018 (FAA)

NOTE: **Rwy 4**, multiple trees beginning 1011' from departure end of runway, 420' left of centerline, up to 60' AGL/2119' MSL. **Rwy 13**, multiple trees beginning 1897' from departure end of runway, 975' left of centerline, 60' AGL/2119' MSL. **Rwy 22**, multiple trees beginning 679' from departure end of runway, 117' left of centerline, up to 60' AGL/2109' MSL.

**GLENCOE, MN**

GLENCOE MUNI (GYL)

ORIG 09071 (FAA)

NOTE: **Rwy 13**, trees beginning 349' from DER, 257' right of centerline, up to 100' AGL/1099' MSL. Trees beginning 1211' from DER, 314' left of centerline, up to 100' AGL/1109' MSL. Terrain beginning 53' from DER, 166' left of centerline, up to 998' MSL. Terrain beginning 286' from DER, 435' right of centerline, up to 1001' MSL. **Rwy 31**, trees beginning 501' from DER, 530' right of centerline, up to 100' AGL/1099' MSL. Tree 2577' from DER, 129' left of centerline, 100' AGL/1109' MSL.

**GLENWOOD, MN**

GLENWOOD MUNI (GHW)

AMDT 2 98337 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 1200-2 or std. with a min. climb of 220' per NM to 2900.



# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

10210

## GRAFTON, ND

HUTSON FIELD (GAF)

AMDT 1 10210 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA-Environmental.

NOTE: **Rwy 17**, vehicle on roads beginning 23' from DER, 300' left of centerline, up to 15' AGL/837' MSL. Tree 2612' from DER, 857' left of centerline, 100' AGL/929' MSL. **Rwy 35**, building 107' from DER, 344' left of centerline, 17' AGL/836' MSL. Electrical system 153' from DER, 398' left of centerline, 21' AGL/840' MSL. Vehicle on roads beginning 260' from DER, 74' left of centerline, up to 15' AGL/841' MSL. Obstruction light on airport beacon 471' from DER, 601' left of centerline, 54' AGL/873' MSL.

## GRAND FORKS, ND

GRAND FORKS INTL (GFK)

AMDT 2 09071 (FAA)

NOTE: **Rwy 9L**, tree 127' from DER, 451' left of centerline, 12' AGL/853' MSL. **Rwy 27R**, bush 38' from DER, 474' right of centerline, 5' AGL/844' MSL. **Rwy 35L**, obstruction light on DME 645' from DER, 198' left of centerline, 21' AGL/860' MSL. **Rwy 35R**, tree 1259' from DER, 521' right of centerline, 41' AGL/880' MSL. Tree 1655' from DER, 271' left of centerline, 45' AGL/884' MSL.

## GRAND MARAIS, MN

GRAND MARAIS/COOK COUNTY (CKC)

ORIG 09015 (FAA)

NOTE: **Rwy 9**, trees beginning 58' from departure end of runway, 168' right of centerline up to 54' AGL/1833' MSL. Bushes 112' from departure end of runway, 142' left of centerline, 11' AGL/1805' MSL. Tree 464' from departure end of runway, 75' left of centerline, 14' AGL/1813' MSL. **Rwy 27**, trees beginning 85' from departure end of runway, 187' left of centerline, up to 59' AGL/1858' MSL. Trees beginning 282' from departure end of runway, 115' right of centerline, up to 42' AGL/1861' MSL.

## GRAND RAPIDS, MN

GRAND RAPIDS/ITASCA COUNTY-GORDON NEWSTROM FIELD (GPZ)

AMDT 4 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5, 10, 23, 28**, NA-Environmental.

NOTE: **Rwy 16**, tree 1655' from DER, 899' left of centerline, 51' AGL/1410' MSL. Tree 3236' from DER, 1130' right of centerline, 82' AGL/1441' MSL. **Rwy 34**, tree 3416' from DER, 1253' right of centerline, 100' AGL/1399' MSL.

## GRANITE FALLS, MN

GRANITE FALLS MUNI/LENZEN-ROE MEML FLD (GDB)

ORIG 10126 (FAA)

NOTE: **Rwy 15**, trees beginning 1780' from DER, 94' left of centerline, up to 100' AGL/1149' MSL. **Rwy 33**, trees beginning 1196' from DER, right and left of centerline, up to 100' AGL/1149' MSL. Powerline 1242' from DER, 762' left of centerline, 80' AGL/1129' MSL. Train 1390' from DER, 149' left of centerline, 23' AGL/1162' MSL. Vehicle on road 1389' from DER, 156' left of centerline, up to 15' AGL/1154' MSL.

## GREGORY, SD

GREGORY MUNI, FLYNN FIELD (9D1)

ORIG-A 10182 (FAA)

TAKE-OFF MINIMUMS: **Rwy 31**, 400-2¼ or std. with a min. climb of 228' per NM to 2600.NOTE: **Rwy 31**, tower 11377' from DER, 816' right of centerline, 210' AGL/2491' MSL.

## GWINNER, ND

GWINNER-ROGER MELROE FIELD (GWR)

ORIG 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6, 24**, NA-Environment.

**Rwy 34**, std. w/ min. climb of 216' per NM to 2000, or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 34**, for climb in visual conditions, cross Gwinner-Roger Melroe Field at or above 2000, before proceeding on course.

NOTE: **Rwy 16**, terrain beginning 15' from DER, 73' right of centerline, 1257' MSL. **Rwy 34**, road and vehicle 436' from DER, on centerline, 15' AGL/1286' MSL.

## HAWLEY, MN

HAWLEY MUNI (04Y)

ORIG 07074 (FAA)

NOTE: **Rwy 34**, road 15' from departure end of runway, 421' left of centerline, 15' AGL/1224' MSL.

## HAZEN, ND

MERCER COUNTY RGNL (HZE)

ORIG 10210 (FAA)

TAKE-OFF MINIMUMS: **Rwy 32**, std. w/ min. climb of 215' per NM to 2700, or 900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 32**, for climb in visual conditions: cross Mercer County Rgnl airport at or above 2600 MSL before proceeding on course.

NOTE: **Rwy 14**, numerous fences beginning 196' from DER, 108' left of centerline, up to 12' AGL/1843' MSL. Terrain beginning 501' from DER, 271' left of centerline, up to 1837' MSL. **Rwy 32**, tree 1291' from DER, 592' right of centerline, 25' AGL/1833' MSL. Terrain 495' from DER, 360' left of centerline, 1803' MSL. Fence 5' from DER, 298' left of centerline, 8' AGL/1790' MSL. Tree 1444' from DER, 520' right of centerline, 25' AGL/1823' MSL.

## HETTINGER, ND

HETTINGER MUNI (HEI)

AMDT 2 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, 300-1 or std. with a min. climb of 324' per NM to 3000. **Rwys 17, 35**, NA-Environmental.

NOTE: **Rwy 30**, road plus vehicles beginning 63' from DER, crossing left to right, 15' AGL/2744' MSL. Trees beginning 4306' from DER, 17' right of centerline, 100' AGL/2819' MSL.

10210

# TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

NC-1

26 AUG 2010 to 23 SEP 2010

26 AUG 2010 to 23 SEP 2010





10210

**HIBBING, MN**

RANGE RGNL (HIB)  
AMDT 6 04218 (FAA)

DEPARTURE PROCEDURE: **Rwy 22**, climb via heading 227° to 2200 before turning right. **Rwy 31**, climb via heading 310° to 2200 before turning left.

NOTE: **Rwy 4**, antenna on pole, 361' from departure end of runway, 409' right of centerline, 1377' MSL. **Rwy 13**, obstacle light on pole, 1184' from departure end of runway, 636' left of centerline. Numerous trees beginning 1291' from departure end of runway, 745' left of centerline up to 1419' MSL. Trees 1497' from departure end of runway, 563' right of centerline, 1388' MSL. **Rwy 22**, multiple trees beginning 368' from departure end of runway, 170' right of centerline, up to 1416' MSL. Multiple trees beginning 413' from departure end of runway, 117' left of centerline, up to 1400' MSL. **Rwy 31**, light standard, 865' from departure end of runway, 595' right of centerline, 1381' MSL.

**HILLSBORO, ND**

HILLSBORO MUNI (3H4)  
ORIG 97198 (FAA)

DEPARTURE PROCEDURE: **Rwys 16, 34**, climb runway heading to 2000 prior to turning westbound.

**HINCKLEY, MN**

FIELD OF DREAMS (04W)  
ORIG 08045 (FAA)

NOTE: **Rwy 6**, Tree 82' from departure end of runway, 480' right of centerline, 100' AGL/1114' MSL. Tree 143' from departure end of runway, 161' left of centerline, 100' AGL/1114' MSL. **Rwy 24**, Tree 48' from departure end of runway, 165' left of centerline, 100' AGL/1124' MSL.

**HOT SPRINGS, SD**

HOT SPRINGS MUNI (HSR)  
ORIG 97142 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. with a min. climb of 360' per NM to 5000. **Rwy 19**, 300-2 or std. with a min. climb of 250' per NM to 5000.

DEPARTURE PROCEDURE: **Rwys 1, 19**, climb runway heading to 5000 before proceeding westbound.

**HURON, SD**

HURON RGNL (HON)  
AMDT 5 09239 (FAA)

NOTE: **Rwy 12**, trees and pole beginning 918' from DER, 525' left of centerline, up to 62' AGL/1341' MSL. Trees beginning 291' from DER, 234' right of centerline, up to 100' AGL/1389' MSL. **Rwy 17**, trees beginning 236' from DER, 307' left of centerline, up to 67' AGL/1346' MSL. Trees beginning 264' from DER, 262' right of centerline, 73' AGL/1352' MSL. **Rwy 30**, trees beginning 3428' from DER, 1378' left of centerline, up to 100' AGL/1394' MSL. **Rwy 35**, trees beginning 60' from DER, 104' left of centerline, up to 49' AGL/1328' MSL. Trees beginning 251' from DER, 97' right of centerline, 52' AGL/1331' MSL.

**INTERNATIONAL FALLS, MN**

FALLS INTL (INL)  
AMDT 3 08101 (FAA)

NOTE: **Rwy 4**, Tree 392' from departure end of runway 311' left of centerline, 51' AGL/1231' MSL. **Rwy 13**, multiple trees beginning 1999' from departure end of runway, 773' left of centerline, up to 63' AGL/1233' MSL. Pole 1091, from departure end of runway, 703' right of centerline, 37' AGL/1207' MSL. Road 1005' from departure end of runway, 766' left of centerline, 15' AGL/1195' MSL. **Rwy 22**, Multiple trees beginning 433' from departure end of runway 273' left of centerline, up to 33' AGL/1213' MSL. Trees 1144' from departure end of runway 136' right of centerline, 28' AGL/1208' MSL. **Rwy 31**, Trees 968' from departure end of runway, 752' left of centerline, 56' AGL/1236' MSL.

**JACKSON, MN**

JACKSON MUNI (MJQ)  
ORIG 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 22**, NA-TURF.  
DEPARTURE PROCEDURE: **Rwy 13**, Climb heading 134° to 1900 before turning right.

NOTES: **Rwy 13**, Trees beginning 1474' from departure end of runway, 556' left of centerline, up to 80' AGL/1539' MSL. Vehicle on road 258' from departure end of runway, 559' from centerline, 15' AGL/1459' MSL. **Rwy 31**, Vehicle on road 465' from departure end of runway, 618' left of centerline, 15' AGL/1446' MSL. Trees beginning 1616' from departure end of runway, 580' right of centerline, up to 80' AGL/1519' MSL. Trees beginning 1110' from departure end of runway, 429' left of centerline, up to 80' AGL/1509' MSL.

**JAMESTOWN, ND**

JAMESTOWN RGNL (JMS)  
AMDT 1 07242 (FAA)

NOTE: **Rwy 22**, antenna and tank beginning 2960' from departure end of runway, 1007' left of centerline, up to 150' AGL/1631' MSL. **Rwy 31**, multiple trees beginning 2129' from departure end of runway 47' right of centerline, up to 60' AGL/1560' MSL.

**KINDRED, ND**

HAMRY FIELD (K74)  
ORIG 10042 (FAA)

NOTE: **Rwy 29**, tree 991' from DER, 367' left of centerline, 38' AGL/982' MSL. Tree 1073' from DER, 221' left of centerline, 38' AGL/982' MSL.

**LANGDON, ND**

ROBERTSON FIELD (D55)  
ORIG 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA - Environmental.

NOTE: **Rwy 14**, vehicles on road beginning 479' to 684' from DER, from 238' to 413' left of centerline, up to 15' AGL/1627' MSL. **Rwy 32**, windsock 13' from DER, 416' right of centerline, 16' AGL/1619' MSL. Fence 24' from DER, 301' left of centerline, 5' AGL/1608' MSL. Fence 199' from DER, 293' left of centerline, 5' AGL/1608' MSL. Trees beginning 485' from DER 203' right of centerline, up to 30' AGL/1628' MSL. Trees beginning 1912' from DER, from 241' to 418' left of centerline, up to 78' AGL/1677' MSL.

26 AUG 2010 to 23 SEP 2010

26 AUG 2010 to 23 SEP 2010

10210



NC-1

**LITCHFIELD, MN**

LITCHFIELD MUNI (LJF)

DEPARTURE PROCEDURE: **Rwy 13, 31**, climb to 1800 on runway heading before proceeding on course.

**LITTLE FALLS, MN**

LITTLE FALLS/MORRISON COUNTY CHARLES A. LINDBERGH FIELD (LXL)

AMDT 3 96172 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, 300-1 or std. with a min. climb of 250' per NM to 1500. **Rwy 36**, 600-1½ or std. with a min. climb of 345' per NM to 1700.

DEPARTURE PROCEDURE: **Rwy 31**, climb to 1700 before turning.

**LONG PRAIRIE, MN**

TODD FIELD (14Y)

ORIG 08157 (FAA)

NOTE: **Rwy 16**, tree 273' from departure end of runway, 310' right of centerline, 100' AGL/1436' MSL. **Rwy 34**, tree 70' from departure end of runway, 100' right of centerline, 100' AGL/1439' MSL. Tree 122' from departure end of runway, 105' left of centerline, 100' AGL/1436' MSL. Tree 18' from departure end of runway, 106' right of centerline, 100' AGL/1433' MSL.

**LUVERNE, MN**

QUENTIN AANENSON FIELD (LYV)

ORIG 10154 (FAA)

NOTE: **Rwy 18**, tree 813' from DER, 578' left of centerline, 50' AGL/1469' MSL. Road plus vehicle 685' from DER, 574' right of centerline, 15' AGL/1454' MSL. Terrain 20' from DER, on centerline, 1429' MSL.

**Rwy 36**, transmission tower, 5752' from DER, 1036' right of centerline, 139' AGL/1581' MSL.

**MANKATO, MN**

MANKATO RGNL (MKT)

ORIG 09267 (FAA)

NOTE: **Rwy 4**, trees beginning 447' from DER, 408' right of centerline, up to 100' AGL/1078' MSL. Trees beginning 1996' from DER, 17' left of centerline, up to 100' AGL/1084' MSL. **Rwy 15**, trees beginning 1552' from DER, 719' left of centerline, up to 100' AGL/1088' MSL. **Rwy 22**, trees beginning 2370' from DER, 989' right of centerline, up to 100' AGL/1069' MSL. **Rwy 33**, trees beginning 2085' from DER, 780' right of centerline, up to 100' AGL/1077' MSL. Rising terrain 9' from DER, 65' right of centerline, up to 1029' MSL. Terrain beginning 82' from DER, 60' left of centerline, up to 1029' MSL.

**MARSHALL, MN**

SOUTHWEST MINNESOTA RGNL MARSHALL/RYAN FIELD (MML)

AMDT 2 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 20**, Std. w/ min. climb of 270' per NM to 2000, or 1000-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 20**, for climb in visual conditions, cross Marshall Airport at or above 2000 MSL before proceeding on course.

NOTE: **Rwy 12**, Pole 706' from departure end of runway, 671' right of centerline, 60' AGL/1212' MSL, pole 1580' from departure end of runway, 732' left of centerline, 70' AGL/1225' MSL, antenna 1496' from departure end of runway, 620' right of centerline, 64' AGL/1219' MSL, pole 1185' from departure end of runway, 540' right of centerline, 55' AGL/1210' MSL, tree 3564' from departure end of runway, 400' right of centerline, 110' AGL/1269' MSL, tree 2135' from departure end of runway, 113' left of centerline, 77' AGL/1232' MSL. **Rwy 30**, Vehicle on road 1' from departure end of runway, 435' left of centerline, 24' AGL/1200' MSL.

**MILBANK, SD**

MILBANK MUNI (1D1)

ORIG 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 25**, Std. w/ a min. climb of 207' per NM to 1900, or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 25**, For climb in visual conditions cross Milbank Muni airport at or above 1900 before proceeding on course.

NOTE: **Rwy 7**, trees beginning 1207' from departure end of runway, 387' left of centerline, up to 100' AGL/1219' MSL. Vehicle on road 829' from departure end of runway, 373' right of centerline, 15' AGL/1134' MSL. Building 322' from departure end of runway, 582' right of centerline, 25' AGL/1134' MSL. **Rwy 13**, trees beginning 1448' from departure end of runway, 394' right of centerline, up to 100' AGL/1219' MSL. Vehicle on road 218' from departure end of runway, 490' left of centerline, 15' AGL/1134' MSL. Building 78' from departure end of runway, 397' left of centerline, 25' AGL/1134' MSL. **Rwy 25**, tree 3584' from departure end of runway, 477' left of centerline, 100' AGL/1249' MSL. **Rwy 31**, tree 2992' from departure end of runway, 715' left of centerline, 100' AGL/1239' MSL.

**MILLER, SD**

MILLER MUNI (MKA)

ORIG 08269 (FAA)

NOTE: **Rwy 15**, vehicle on road 769' from departure end of runway, 642' right of centerline, 15' AGL/1599' MSL. Snow removal equipment 206' from departure end of runway, 475' right of centerline, 21' AGL/1594' MSL. Tree 3903' from departure end of runway, 998' left of centerline, 100' AGL/1684' MSL. **Rwy 33**, vehicle on road 450' from departure end of runway, 560' left of centerline, 15' AGL/1584' MSL. Tree 762' from departure end of runway, 628' left of centerline, 100' AGL/1669' MSL.



10210

## MINNEAPOLIS, MN

AIRLAKE (LVN)

ORIG 10154 (FAA)

NOTE: **Rwy 12**, ground 198' from DER, 533' right of centerline, 0' AGL/963' MSL. Tree and vehicle on road, beginning 422' from DER, 379' right of centerline, up to 15' AGL/978' MSL. Tree 1291' from DER, 506' left of centerline, 62' AGL/1002' MSL. **Rwy 30**, ground 104' from DER, 479' left of centerline, 0' AGL/965' MSL. Tree, pole, and antenna on building beginning 171' from DER, 259' right of centerline, up to 50' AGL/1000' MSL. Tree, railroad, and antenna on building 486' from DER, 268' left of centerline, up to 41' AGL/1001' MSL. Trees and a building beginning 821' from DER, 30' right of centerline, up to 49' AGL/1009' MSL.

## ANOKA COUNTY-BLAINE AIRPORT

(JANES FIELD) (ANE)

AMDT 5A 10126 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 300-1½ or std. w/min. climb of 204' per NM to 1200, or alternatively, with standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1200' prior to DER. **Rwy 18**, 300-1 or std. w/min. climb of 367' per NM to 1200.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 089° to 2200 before turning right. **Rwy 18**, climb heading 179° to 2600 before turning left. **Rwy 27**, climb heading 269° to 1700 before proceeding southeast bound.

**Rwy 36**, climb heading 359° to 1700 before proceeding southeast bound.

NOTE: **Rwy 9**, tank and multiple trees beginning 822' from DER, 619' right of centerline, up to 170' AGL/1082' MSL. Trees 2248' from DER, 966' left of centerline, 100' AGL/1009' MSL. **Rwy 18**, aircraft on taxiway 36' from DER, 481' right of centerline, up to 21' AGL/928' MSL. Multiple trees beginning 406' from DER, 287' left of centerline, up to 49' AGL/959' MSL. Tower 5016' from DER, 201' left of centerline, 120' AGL/1078' MSL.

**Rwy 27**, multiple trees beginning 7' from DER, 235' right of centerline, up to 83' AGL/983' MSL. Multiple trees beginning 558' from DER, 406' left of centerline, up to 57' AGL/957' MSL. **Rwy 36**, multiple trees beginning 86' from DER, 10' right of centerline, up to 87' AGL/987' MSL. Multiple trees beginning 1282' from DER, 53' left of centerline, up to 70' AGL/970' MSL.

## MINNEAPOLIS, MN (CON'T)

CRYSTAL (MIC)

AMDT 2 81050 (FAA)

TAKE-OFF MINIMUMS: **Rwys 14L, 14R, 32L, 32R**, 300-1. **Rwys 24L, 24R**, 300-1 or std. with a min. climb of 215' per NM to 1000. **Rwys 6L, 6R**, 300-1 or std. with a min. climb of 285' per NM to 1000.

DEPARTURE PROCEDURE: **Rwys 6L, 6R, 14L, 14R**, eastbound departures (050°-130°) climb runway heading to 2800 before turning.

## FLYING CLOUD (FCM)

AMDT 4 08157 (FAA)

NOTE: **Rwy 10L**, multiple antenna's on hangar's beginning 270' from departure end of runway, 330' left of centerline, up to 26' AGL/932' MSL. Tree 682' from departure end of runway, 668' right of centerline, 26' AGL/932' MSL. **Rwy 10R**, multiple obstruction light on poles beginning 287' from departure end of runway, 345' right of centerline, up to 36' AGL/939' MSL. Hangar 150' from departure end of runway, 422' right of centerline, 21' AGL/920' MSL. Antenna on building, 536' from departure end of runway, 263' right of centerline, 14' AGL/913' MSL. **Rwy 18**, multiple trees beginning 338' from departure end of runway, 166' left of centerline, up to 62' AGL/961' MSL. Obstruction light on fence 176' from departure end of runway, 127' left of centerline, 10' AGL/910' MSL. Vehicle and road 198' from departure end of runway, 196' left of centerline, 15' AGL/918' MSL. Floodlight 148' from departure end of runway, 374' right of centerline, 38' AGL/938' MSL. Obstruction light on hangar 282' from departure end of runway, 317' right of centerline, 37' AGL/937' MSL. **Rwy 28R**, Hangar 259' from departure end of runway, 355' right of centerline, 18' AGL/931' MSL. **Rwy 36**, wind vane 923' from departure end of runway, 404' left of centerline, 61' AGL/960' MSL. Vent on building 943' from departure end of runway, 295' left of centerline, 44' AGL/943' MSL. Pole 714' from departure end of runway, 351' left of centerline, 33' AGL/932' MSL. Multiple trees beginning 504' from departure end of runway, 324' right of centerline, up to 67' AGL/966' MSL.

26 AUG 2010 to 23 SEP 2010

26 AUG 2010 to 23 SEP 2010



10210

**MINNEAPOLIS, MN (CON'T)**

MINNEAPOLIS-ST. PAUL INTL  
(WOLD CHAMBERLAIN) (MSP)  
AMDT 11 07130 (FAA)

TAKEOFF MINIMUMS: **Rwy 35**, std. with a min. climb of 219' per NM to 2100.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 043° to 2100 before turning left. **Rwy 30L**, climb heading 299° to 2100 before turning right. **Rwy 30R**, climb heading 299° to 2100 before turning right.  
**Rwy 35**, climb via heading 348° to 2100 before turning left.

NOTE: **Rwy 4**, multiple trees beginning 800' from departure end of runway, 264' left of centerline, up to 75' AGL/921' MSL. Rod on building 2528' from departure end of runway, 1175' left of centerline, 78' AGL/922' MSL. Fence 803' from departure end of runway, 585' left of centerline, 15' AGL/860' MSL. Antenna on OL building 456' from departure end of runway, 319' left of centerline, 13' AGL/850' MSL. Light poles 1932' from departure end of runway, 718' left of centerline, 45' AGL/885' MSL. Stack 4535' from departure end of runway, 481' left of centerline, 139' AGL/949' MSL. **Rwy 12R**, multiple trees beginning 1477' from departure end of runway, 407' left of centerline, up to 86' AGL/851' MSL. Multiple trees beginning 1426' from departure end of runway, 124' right of centerline, up to 111' AGL/847' MSL. Light pole 1408' from departure end of runway, 746' right of centerline, 85' AGL/843' MSL. Radar RFLTR 983' from departure end of runway, 32' left of centerline, 15' AGL/829' MSL. Pipe on building, 826' from departure end of runway, 576' left of centerline, 10' AGL/825' MSL. Obstruction light on localizer 766' from departure end of runway, on centerline, 7' AGL/821' MSL. **Rwy 17**, antenna 1272' from departure end of runway, 562' right of centerline, 57' AGL/891' MSL. Pole 409' from departure end of runway, 530' right of centerline, 29' AGL/866' MSL. WDI on building 2619' from departure end of runway, 881' left of centerline, 97' AGL/918' MSL. Building 2619' from departure end of runway, 859' left of centerline, 84' AGL/905' MSL. Light 1176' from departure end of runway, 291' right of centerline, 11' AGL/875' MSL. Tree 2619' from departure end of runway, on centerline, 79' AGL/900' MSL. **Rwy 22**, tree 2906' from departure end of runway, 833' right of centerline, 94' AGL/934' MSL. Hopper 1717' from departure end of runway, 456' left of centerline, 48' AGL/888' MSL. **Rwy 30L**, multiple trees beginning 1113' from departure end of runway, 701' left of centerline, up to 80' AGL/919' MSL. Tree 1230' from departure end of runway, 633' right of centerline, 30' AGL/877' MSL. Ground 28' from departure end of runway, 490' right of centerline, 0' AGL/844' MSL. **Rwy 30R**, building 1056' from departure end of runway, 198' left of centerline, 13' AGL/853' MSL. Multiple trees beginning 3010' from departure end of runway, 334' left of centerline, up to 94' AGL/940' MSL. Light pole 1849' from departure end of runway, 698' right of centerline, 17' AGL/871' MSL. Fence 1327' from departure end of runway, 667' right of centerline, 8' AGL/857' MSL. Tree 3703' from departure end of runway, 350' right of centerline, 67' AGL/914' MSL. Rod on pole 3143' from departure end of runway, 47' right of centerline, 38' AGL/898' MSL. **Rwy 35**, tree 175' from departure end of runway, 398' right of centerline, 73' AGL/883' MSL. Multiple trees beginning 1989' from departure end of runway, 351' left of centerline, up to 65' AGL/902' MSL. Multiple buildings beginning 5.45 NM from departure end of runway, 1787' left of centerline, up to 811' AGL/1743' MSL.

**MINOT, ND**

MINOT INTL (MOT)  
AMDT 3 06103 (FAA)

TAKE-OFF MINIMUMS: **Rwy 26**, 300-1½ or std. with a min. climb of 219' per NM to 2000.

DEPARTURE PROCEDURE: **Rwy 13**, climb via heading 128° to 2200 before turning right. **Rwy 26**, climb via heading 260° to 2300 before turning left.

NOTE: **Rwy 8**, tree 1801' from departure end of runway, 292' left of centerline, 56' AGL/1714' MSL. Tree 1459' from departure end of runway, 528' left of centerline, 47' AGL/1705' MSL. **Rwy 26**, tree 1750' from departure end of runway, 618' right of centerline, 71' AGL/1786' MSL. Tree 1829' from departure end of runway, 376' left of centerline, 65' AGL/1780' MSL. Light pole 1110' from departure end of runway, 610' left of centerline, 44' AGL/1759' MSL. Tank 1.1 NM from departure end of runway, 1810' right of centerline, 184' AGL/1899' MSL. Tree 1782' from departure end of runway, 273' right of centerline, 49' AGL/1764' MSL. Light pole 1294' from departure end of runway, 452' right of centerline, 29' AGL/1751' MSL. Tree 2019' from departure end of runway, 393' right of centerline, 54' AGL/1769' MSL. Building 1431' from departure end of runway, 301' right of centerline, 38' AGL/1753' MSL. Light pole 1418' from departure end of runway, 23' right of centerline, 36' AGL/1751' MSL.

**MITCHELL, SD**

MITCHELL MUNI (MHE)  
AMDT 1 86240 (FAA)

DEPARTURE PROCEDURE: **Rwys 12, 17**, climb to 1800 before turning.

**MOBRIDGE, SD**

MOBRIDGE MUNI (MBG)  
ORIG 88154 (FAA)

TAKE-OFF MINIMUMS: **RWY 35**, 300-1.

DEPARTURE PROCEDURE: **Rwys 12, 17, 30, 35**, climb runway heading to 2500 before turning on course.

**MONTEVIDEO, MN**

MONTEVIDEO-CHIPPEWA COUNTY (MVE)  
TAKE-OFF MINIMUMS: **Rwy 21**, 400-1½.

DEPARTURE PROCEDURE: **Rwy 14**, climb runway heading to 1500 before turning.

**MOOSE LAKE, MN**

MOOSE LAKE CARLTON COUNTY (MZH)  
ORIG 94006 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 22**, 300-1.

**MORRIS, MN**

MORRIS MUNI-CHARLIE SCHMIDT FLD (MOX)  
ORIG 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 22**, NA-Environmental.

NOTE: **Rwy 32**, Trees 2888' from departure end of runway, 1125' left of centerline, 100' AGL/1209' MSL.

**OAKES, ND**

OAKES MUNI (2D5)  
ORIG 97142 (FAA)

TAKE-OFF MINIMUMS: **Rwy 30**, 300-1 or std. with a min. climb of 260' per NM to 1700.

26 AUG 2010 to 23 SEP 2010

26 AUG 2010 to 23 SEP 2010

10210



NC-1

# OLIVIA, MN

OLIVIA RGNL (OVL)  
AMDT 1 86044 (FAA)  
TAKE-OFF MINIMUMS: **Rwy 11**, 300-1.

# ORR, MN

ORR RGNL (ORB)  
AMDT 1 80136 (FAA)  
TAKE-OFF MINIMUMS: **Rwy 13**, 500-2 or std. with a min. climb of 260' per NM to 1900.

# ORTONVILLE, MN

ORTONVILLE MUNI-MARTINSON FIELD (VVV)  
ORIG 81274 (FAA)  
TAKE-OFF MINIMUMS: **Rwy 16**, 300-1 or std. with a min. climb of 210' per NM to 1300.

# OWATONNA, MN

OWATONNA DEGNER RGNL (OWA)  
AMDT 2 97030 (FAA)  
DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading to 1500 before turning on course.

# PEMBINA, ND

PEMBINA MUNI (PMB)  
ORIG 85325 (FAA)  
DEPARTURE PROCEDURE: **Rwy 33**, climb runway heading 3200 before turning left.

# PERHAM, MN

PERHAM MUNI (16D)  
ORIG 98113 (FAA)  
TAKE-OFF MINIMUMS: **Rwy 12**, 500-2 or std. with a min. climb of 210' per NM to 2000. **Rwy 30**, 400-1 or std. with a min. climb of 270' per NM to 1800.  
DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading to 2000 before proceeding on course. **Rwy 30**, climb runway heading to 1800 before proceeding on course.

# PIERRE, SD

PIERRE RGNL (PIR)  
AMDT 2 85115 (FAA)  
TAKE-OFF MINIMUMS: **Rwy 25**, 300-1.

# PINE RIDGE, SD

PINE RIDGE (IEN)  
ORIG 97226 (FAA)  
TAKE-OFF MINIMUMS: **Rwy 12**, 300-1 or std. with a min. climb of 350' per NM to 3600. **Rwy 24**, 300-1 or std. with a min. climb of 220' per NM to 3500. **Rwy 30**, 300-1 or std. with a min. climb of 300' per NM to 3600.

# PIPESTONE, MN

PIPESTONE MUNI (PQN)  
ORIG 08045 (FAA)  
TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Environmental.  
NOTE: **Rwy 18**, Trees beginning 3811' from departure end of runway, 854' right of centerline, up to 100' AGL/1859 MSL.

# PRESTON, MN

FILLMORE COUNTY (FKA)  
ORIG 98113 (FAA)  
TAKE-OFF MINIMUMS: **Rwys 11,29**, 300-1.

# PRINCETON, MN

PRINCETON MUNI (PNM)  
AMDT 1 05132 (FAA)  
NOTE: **Rwy 15**, trees 982' from departure end of runway, 335' right of centerline, 50' AGL/1029' MSL. Trees 1449' from departure end of runway, 387' left of centerline, 50' AGL/1029' MSL. **Rwy 33**, barn 1159' from departure end of runway, 780' right of centerline, 50' AGL/1139' MSL, multiple trees, terrain, and road beginning 36' from departure end of runway, 84' right of centerline, up to 50' AGL/1045' MSL.

# RAPID CITY, SD

RAPID CITY RGNL (RAP)  
AMDT 6 07130 (FAA)  
DEPARTURE PROCEDURE: **Rwy 5**, climb on heading between 255° clockwise to 210° from departure end of runway, or min. climb of 240' per NM to 8800 for all other courses. **Rwy 14**, climb on heading between 325° clockwise to 210° from departure end of runway, or min. climb of 245' per NM to 8900 for all other courses. **Rwy 23**, climb on heading between 210° counter clockwise to 055° from departure end of runway, or min. climb of 268' per NM to 8900 for all other courses. **Rwy 32**, climb on heading between 255° clockwise to 140° from departure end of runway, or min. climb of 242' per NM to 8800 for all other courses.  
NOTE: **Rwy 5**, fence 133' from departure end of runway, 249' left of centerline, 10' AGL/3215' MSL. **Rwy 23**, hangar 201' from departure end of runway, 299' left of centerline, 24' AGL/3193' MSL. Fence 334' from departure end of runway, 256' right of centerline, 10' AGL/3184' MSL. **Rwy 32**, obstruction light 662' from departure end of runway, 243' left of centerline, 54' AGL/3213' MSL. Fence 1002' from departure end of runway, 751' right of centerline, 10' AGL/3233' MSL. Tower 1.9 NM from departure end of runway, 3503' right of centerline, 152' AGL/3520' MSL.

# RAY S. MILLER AAF (KRYM)

CAMP RIPLEY, MN . . . . . AMDT 2, 09155  
TAKE-OFF OBSTACLES: **Rwy 13**, Terrain 1270' MSL, 73' from DER, 8' left and right of centerline. Vehicle 15' AGL/180' MSL, 765' from DER, 638' left of centerline. **Rwy 31**, Terrain 1273' MSL, 54' from DER, 9' left and right of centerline. Trees 64' AGL/1282' MSL, 798' from DER, 325' left and right of centerline.

# RED WING, MN

RED WING RGNL (RGK)  
AMDT 1 01137 (FAA)  
DEPARTURE PROCEDURE: **Rwy 9**, 700-4 or std. with a min. climb of 270' per NM to 1700.

## REDWOOD FALLS, MN

REDWOOD FALLS MUNI (RWF)

ORIG 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5, 23**, NA-Environmental.  
NOTE: **Rwy 12**, numerous buildings beginning 388' from DER, 376' right of centerline, up to 13' AGL/1052' MSL. Numerous fences beginning 6' from DER, 329' right of centerline, up to 13' AGL/1052' MSL. Tree 62' from DER, 444' left of centerline, 11' AGL/1040' MSL. **Rwy 30**, multiple trees beginning 865' from DER, 401' right of centerline, up to 100' AGL/1119' MSL. Vehicle on road 128' from DER, 306' right of centerline, 15' AGL/1027' MSL.

## ROCHESTER, MN

ROCHESTER INTL (RST)

ORIG 09015 (FAA)

NOTE: **Rwy 2**, road 73' from departure end of runway, 385' right of centerline, 10' AGL/1292' MSL. Tree 4377' from departure end of runway, 1132' right of centerline, 100' AGL/1399' MSL. Road 268' from departure end of runway, 366' right of centerline, 10' AGL/1290' MSL. **Rwy 13**, tree 1498' from departure end of runway, 840' right of centerline, 44' AGL/1348' MSL. **Rwy 20**, pole 259' from departure end of runway, 407' right of centerline, 23' AGL/1338' MSL. Roads beginning 1' from departure end of runway, 231' right of centerline, up to 10' AGL/1327' MSL. **Rwy 31**, tree 4760' from departure end of runway, 1103' left of centerline, 100' AGL/1389' MSL.

## ROSEAU, MN

ROSEAU MUNI-RUDY BILLBERG FIELD (ROX)

ORIG 07242 (FAA)

NOTE: **Rwy 16**, building 258' from departure end of runway, 505' right of centerline, 24' AGL/1078' MSL. Tree 1582' from departure end of runway, 337' left of centerline, 47' AGL/1101' MSL. **Rwy 34**, truck on road 41' from departure end of runway, 511' left of centerline, 15' AGL/1069' MSL.

## RUSHFORD, MN

RUSHFORD MUNI (55Y)

AMDT 1 96228 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1 or std. with a min. climb of 300' per NM to 1500.  
DEPARTURE PROCEDURE: **Rwy 16**, climb runway heading to 1700 before turning eastbound.

## ST. CLOUD, MN

ST. CLOUD RGNL (STC)

ORIG 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1½ or std. w/min. climb of 201' per NM to 1300 or alternatively, with standard take-off minimums and a normal 200'/NM climb gradient, take-off must occur no later than 1100' prior to DER.

NOTE: **Rwy 5**, tower 6201' from DER, 1416' left of centerline, 149' AGL/1179' MSL. Multiple trees beginning 17' from DER, 373' right of centerline, up to 59' AGL/1081' MSL. Multiple trees beginning 1752' from DER, 56' left of centerline, up to 80' AGL/1102' MSL. **Rwy 13**, tree 1654' from DER, 884' right of centerline, 61' AGL/1078' MSL. Tree 1265' from DER, 794' left of centerline, 42' AGL/1059' MSL. **Rwy 23**, trees 2109' from DER, 29' right of centerline, up to 61' AGL/1082' MSL. Trees 1725' from DER, 93' left of centerline, up to 55' AGL/1076' MSL. Fence 74' from DER, 216' left of centerline, 2' AGL, 1023' MSL. **Rwy 31**, terrain beginning 29' from DER, 50' right of centerline, up to 1083' MSL. Terrain beginning 107' from DER, 7' left of centerline, up to 1060' MSL.

## ST. JAMES, MN

ST. JAMES MUNI (JYG)

ORIG 94342 (FAA)

DEPARTURE PROCEDURE: **Rwy 15**, climb to 1900 before turning eastbound.

## ST. PAUL MN

LAKE ELMO (21D)

ORIG 80318 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, 300-1 or std. with a min. climb of 225' per NM to 1100.

## ST. PAUL DOWNTOWN HOLMAN FIELD (STP)

AMDT 7 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, std. w/min. climb of 346' per NM to 1500. **Rwy 13**, std. w/min. climb of 266' per NM to 1500. **Rwy 14**, std. w/min. climb of 216' per NM to 1500. **Rwy 27**, std. w/min. climb of 436' per NM to 1500. **Rwy 31**, NA - obstacles. **Rwy 32**, std. w/min. climb of 340' per NM to 3000.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 088° to 1500 before proceeding on course. **Rwy 13**, climb heading 125° to 1500 before proceeding on course.

**Rwy 14**, climb heading 143° to 1500 before proceeding on course. **Rwy 27**, climb heading 268° to 1700 before proceeding on course. **Rwy 32**, climb heading 323° to 1300 before proceeding on course.

NOTE: **Rwy 9**, multiple trees beginning 1265' from departure end of runway, 167' right of centerline, up to 75' AGL/1055' MSL. Multiple trees beginning 1.1 NM from departure end of runway, 124' left of centerline, up to 100' AGL/1099' MSL. Obstruction light tank 1571' from departure end of runway, 771' right of centerline, 50' AGL/811' MSL. Mobile crane 1163' from departure end of runway, 123' left of centerline, 50' AGL/758' MSL.

ST. PAUL DOWNTOWN HOLMAN FIELD  
(STP) (CONT)

**Rwy 13**, Obstruction light stack 2695' from departure end of runway, 842' right of centerline, 50' AGL/820' MSL. Tree 1563' from departure end of runway, 25' right of centerline, 61' AGL/748' MSL. Multiple trees beginning 1004' from departure end of runway, 607' left of centerline, 50' AGL/767' MSL. Tower 1,725' from departure end of runway, 930' left of centerline, 47' AGL/753' MSL. Vent on building 3029' from departure end of runway, 629' right of centerline, 10' AGL/783' MSL. Multiple bushes beginning 194' from departure end of runway 88' left of centerline, 7' AGL/712' MSL. Stack 1,879' from departure end of runway, 25' left of centerline, 51' AGL/751' MSL. **Rwy 14**, multiple trees beginning 805' from departure end of runway, 2' right of centerline, up to 112' AGL/811' MSL. Multiple trees beginning 1205' from departure end of runway, 64' left of centerline, up to 80' AGL/770' MSL. Poles 2810' from departure end of runway 715' right of centerline, 91' AGL/778' MSL. **Rwy 27**, multiple trees beginning 803' from departure end of runway, 122' left of centerline, up to 100' AGL/994' MSL. Tree 783' from departure end of runway, 105' right of centerline, 25' AGL/725' MSL. Obstruction light antenna 996' from departure end of runway, 304' right of centerline, 67' AGL/767' MSL. Light pole 1328' from departure end of runway, 222' left of centerline, 50' AGL/747' MSL. Building 2049' from departure end of runway, 837' right of centerline, 57' AGL/761' MSL. Flagpole 2333' from departure end of runway, 199' left of centerline, 78' AGL/778' MSL. Stack 1.8 NM from departure end of runway, 635' left of centerline, 569' AGL/1279' MSL. **Rwy 32**, road and vehicle 211' from departure end of runway, 482' left of centerline, 17' AGL/717' MSL. Railroad beginning 369' from departure end of runway, 329' left of centerline, up to 23' AGL/727' MSL. Pipe on DME 383' from departure end of runway, 269' right of centerline, 17' AGL/722' MSL. Tree 1152' from departure end of runway, 209' left of centerline, 44' AGL/744' MSL. Tree 1685' from departure end of runway, 277' right of centerline, 75' AGL/770' MSL. Sign 5668' from departure end of runway, 1924' left of centerline, 86' AGL/874' MSL. Trees 5614' from departure end of runway, 1796' right of centerline, 100' AGL/939' MSL. Building 5779' from departure end of runway, 1733' right of centerline, 72' AGL/910' MSL. Pole 1.0 NM from departure end of runway, 1835' right of centerline, 157' AGL/973' MSL. Building 1.1 NM from departure end of runway, 2170' left of centerline, 122' AGL/886' MSL. Multiple buildings beginning 1.1 NM from departure end of runway, 378' left of centerline, up to 142' AGL/918' MSL.

SILVER BAY, MN

SILVER BAY MUNI (BFW)

ORIG 93035 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7, 25**, 300-1.

SIOUX FALLS, SD

JOE FOSS FIELD (FSD)

AMDT 7 07242 (FAA)

TAKE-OFF MINIMUMS: **Rwy 15**, 200-1 or std. w/ min. climb of 404' per NM to 1700. **Rwy 33**, 200-1/4 or std. w/ min. climb of 343' per NM to 1700.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 030° to 2300 before turning eastbound. **Rwy 9**, climb heading 098° to 2000, then left turn direct FSD VORTAC. **Rwy 15**, climb heading 150° to 2000, then right turn direct FSD VORTAC. **Rwy 21**, climb heading 210° to 2200 before turning eastbound. **Rwy 27**, climb heading 278° to 2100 before turning eastbound. **Rwy 33**, climb heading 330° to 2200 before turning eastbound.

NOTE: **Rwy 9**, antenna 2238' from departure end of runway, 919' right of centerline, 87' AGL/1506' MSL. Pole 1256' from departure end of runway, 23' left of centerline, 43' AGL/1464' MSL. Windsock 331' from departure end of runway, 582' right of centerline, 14' AGL/1433' MSL. **Rwy 15**, antenna 3056' from departure end of runway, 983' left of centerline 117' AGL/1576' MSL. Multiple trees beginning 1211' from departure end of runway, 471' left of centerline, up to 38' AGL/1477' MSL. Tower 3102' from departure end of runway, 972' left of centerline, 61' AGL/1520' MSL. Trees and pole beginning 1746' from departure end of runway, 316' right of centerline, up to 87' AGL/1516' MSL. **Rwy 21**, multiple trees beginning 428' from departure end of runway, 522' right of centerline, up to 75' AGL/1497' MSL. **Rwy 27**, multiple trees beginning 2528' from departure end of runway, 1027' left of centerline, up to 100' AGL/1509' MSL. **Rwy 33**, 2 lighted radio towers 3639' from departure end of runway, 894' left of centerline, 88' AGL/1585' MSL, multiple trees beginning 5370' from departure end of runway, 891' left of centerline, up to 175' AGL/1603' MSL, pole 5724' from departure end of runway, 1701' left of centerline, 45' AGL/1594' MSL.

SPEARFISH, SD

BLACK HILLS-CLYDE ICE FIELD (SPF)

TAKE-OFF MINIMUMS: **Rwys 3, 8, 21, 35**, 700-2 (NA at night). **Rwy 17**, NA. **Rwys 26, 31**, 700-2 or std. with a min. climb of 370' per NM to 4700.

DEPARTURE PROCEDURE: **Rwys 3, 8**, turn left. Climb to 6500, intercept the 046° bearing outbound from SPF NDB. Thence... **Rwy 13**, climb runway heading to 4300, then climbing left turn to 6500 via heading 360° to intercept the 046° bearing outbound from SPF NDB. Thence... **Rwys 21, 35**, turn right. Climb to 6500 intercept the 046° bearing outbound from SPF NDB. Thence... **Rwy 26**, climbing right turn to 6500 via heading 330°, intercept the 297° bearing outbound from SPF NDB. Thence... **Rwy 31**, after take-off, intercept 297° bearing outbound from SPF NDB. Climb to 6500. Thence... THENCE...Continue climb to enroute MEA's before proceeding on course.

STAPLES, MN

STAPLES MUNI (SAZ)

AMDT 2 87211 (FAA)

TAKE-OFF MINIMUMS: **Rwy 14**, 400-2.

26 AUG 2010 to 23 SEP 2010

26 AUG 2010 to 23 SEP 2010

## STURGIS, SD

STURGIS MUNI (49B)

ORIG 96284 (FAA)

DEPARTURE PROCEDURE: **Rwy 11**, climb runway heading to 6000, then direct RAP VORTAC.

**Rwy 29**, climb runway heading to 5000, then climbing right turn to 6000 direct RAP VORTAC.

## THIEF RIVER FALLS, MN

THIEF RIVER FALLS RGNL (TVF)

ORIG 09071 (FAA)

NOTE: **Rwy 3**, trees beginning 3058' from DER, 678' right of centerline, up to 100' AGL/1229' MSL. **Rwy 13**, trees beginning 565' from DER, 372' left of centerline, up to 100' AGL/1214' MSL. Trees beginning 1337' from DER, 531' right of centerline, up to 100' AGL/1209' MSL. **Rwy 21**, trees beginning 214' from DER, 544' right of centerline, up to 100' AGL/1204' MSL. Trees beginning 2185' from DER, 33' left of centerline, up to 100' AGL/1209' MSL. **Rwy 31**, trees beginning 126' from DER, 410' right of centerline, up to 100' AGL/1214' MSL. Trees beginning 199' from DER, 413' left of centerline, up to 100' AGL/1209' MSL. Trees beginning 1204' from DER, 449' right of centerline, up to 100' AGL/1199' MSL. Trees beginning 1579' from DER, 495' left of centerline, up to 100' AGL/1214' MSL.

## TIOGA, ND

TIOGA MUNI (D60)

ORIG 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-Environmental. NOTE: **Rwy 12**, vehicle on road 1243' from DER, 78' left of centerline, 15' AGL/2304' MSL. Vehicle on road, tree and pole beginning 618' from DER, 50' right of centerline, up to 100' AGL/2419' MSL. Ground 21' from DER, 481' right of centerline, 2272' MSL. **Rwy 30**, vehicle on road 1' from DER, 144' left of centerline, 15' AGL/2256' MSL.

## TOWER, MN

TOWER MUNI (12D)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, NA - Obstacles. NOTE: **Rwy 26**, tree 2315' from DER, 700' right of centerline, 100' AGL/1479' MSL.

## VALLEY CITY, ND

BARNES COUNTY MUNI (BAC)

ORIG 10098 (FAA)

NOTE: **Rwy 13**, vehicle on road, 111' from DER, 356' right of centerline, 15' AGL/1396' MSL. Trees beginning 644' from DER, 242' right of centerline, up to 40' AGL/1421' MSL. **Rwy 31**, terrain beginning 32' from DER, 20' right of centerline, up to 1424' MSL. Vehicle on road 38' from DER, 285' right of centerline, 15' AGL/1418' MSL. Fence 71' from DER, 292' left of centerline, 4' AGL/1407' MSL. Terrain beginning 120' from DER, 125' left of centerline, up to 1447' MSL. Fence 198' from DER, 299' right of centerline, 4' AGL/1408' MSL. Trees beginning 365' from DER, 10' left of centerline, up to 40' AGL/1457' MSL. Tree 545' from DER, 607' right of centerline, 16' AGL/1436' MSL.

## VERMILLION, SD

HAROLD DAVIDSON FIELD (VMR)

AMDT 1 09239 (FAA)

NOTE: **Rwy 12**, road 1' from DER, 200' right of centerline, up to 15' AGL/1156' MSL. Multiple trees beginning 541' from DER, 366' right of centerline, up to 62' AGL/1202' MSL. **Rwy 30**, road 79' from DER 342' left of centerline 15' AGL/1155' MSL. Road 200' from DER, 450' right of centerline, 15' AGL/1160' MSL. Fence 199' from DER, 347' left of centerline, 6' AGL/1150' MSL.

## WAHPETON, ND

HARRY STERN (BWP)

ORIG 93259 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 300-1.

## WARREN, MN

WARREN MUNI (D37)

ORIG 02108 (FAA)

DEPARTURE PROCEDURE: **Rwy 30**, climb runway heading to 1400 before turning on course.

## WARROAD, MN

WARROAD INTL MEMORIAL (RRT)

ORIG 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 22**, NA-Environmental.

## WASECA, MN

WASECA MUNI (ACQ)

ORIG 09015 (FAA)

NOTE: **Rwy 15**, tree 560' from departure end of runway, 560' right of centerline, 100' AGL/1239' MSL. Terrain beginning 172' from departure end of runway, on centerline, up to 1149' MSL. **Rwy 33**, tree 5042' from departure end of runway, 1533' right of centerline, 100' AGL/1259' MSL.

## WATERTOWN, SD

WATERTOWN RGNL (ATY)

ORIG 07242 (FAA)

NOTE: **Rwy 12**, tree 2015' from departure end of runway, 328' right of centerline, 100' AGL/1783' MSL. **Rwy 30**, trees 2149' from departure end of runway, 10' right of centerline, 51' AGL/1810' MSL. Tree 2200' from departure end of runway, 441' left of centerline, 70' AGL/1810' MSL. Tree 2082' from departure end of runway, 121' right of centerline, 55' AGL/1806' MSL.

## WATFORD CITY, ND

WATFORD CITY MUNI (S25)

AMDT 1 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, 400-1½ or std. with a min. climb of 462' per NM to 2600. **Rwys 18, 36**, NA-Environmental.

NOTE: **Rwy 12**, tree 5528' from DER, 1819' right of centerline, up to 100' AGL/2439' MSL. Vehicle on road, trees, and terrain beginning 186' from DER, 62' right of centerline, up to 100' AGL/2258' MSL. Vehicle on road, fence, and terrain beginning 90' from DER, 43' left of centerline, up to 27' AGL/2167' MSL. **Rwy 30**, trees and buildings beginning 672' from DER, 119' right of centerline, up to 41' AGL/2101' MSL. Vehicle on road, light and trees beginning 199' from DER, 128' left of centerline, up to 59' AGL/2119' MSL.



## WHEATON, MN

WHEATON MUNI (ETH)

AMDT 1 92177 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, 300-1. **Rwys 4, 22**, NA.

## WILLISTON, ND

SLOULIN FIELD INTL (ISN)

AMDT 4 10210 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, 400-2¼ or std. with a min. climb of 359' per NM to 2200.

DEPARTURE PROCEDURE: **Rwy 11**, climb heading 115° to 2400 before turning left.

NOTE: **Rwy 2**, trees 1212' from DER, 398' left of centerline, up to 100' AGL/2019' MSL. **Rwy 11**, trees 831' from DER, 686' right of centerline, up to 100' AGL/1999' MSL. **Rwy 20**, trees 610' from DER, 450' right of centerline, up to 100' AGL/2019' MSL. Trees 1204' from DER, 128' left of centerline, up to 100' AGL/2019' MSL. Poles beginning from DER, 61' right of centerline, up to 44' AGL/1954' MSL. Building 1811' from DER, 371' right of centerline, 65' AGL/1980' MSL. **Rwy 29**, terrain beginning 639' from DER, 179' left of centerline, up to 2150' MSL. Terrain beginning 645' from DER, 305' right of centerline, up to 2103' MSL. Fence 1341' from DER, 210' right of centerline, 10' AGL/2021' MSL. Fence beginning 966' from DER, 250' left of centerline, up to 10' AGL/2029' MSL. Obstruction light on LOC 999' from DER, on centerline, 5' AGL/2014' MSL. Antenna on building 1000' from DER, 270' right of centerline, 29' AGL/2018' MSL. CHY on building 1165' from DER, 791' right of centerline, 29' AGL/2040' MSL. Building 2345' from DER, 519' left of centerline, 29' AGL/2066' MSL. T-L tower 3480' from DER, 237' right of centerline, 77' AGL/2137' MSL. Obstruction light pole 3478' from DER, 247' right of centerline, 82' AGL/2137' MSL. Rod on obstruction light pole 3692' from DER, 392' left of centerline, 68' AGL/2147' MSL. T-L tower 3700' from DER, 403' left of centerline, 82' AGL/2147' MSL. Tree 1.2 NM from DER, 1557' right of centerline, 27' AGL/2186' MSL. Tree 1.9 NM from DER, 2091' right of centerline, 100' AGL/2309' MSL.

## WILLMAR, MN

WILLMAR MUNI-JOHN L. RICE FIELD (BDH)

ORIG 06327 (FAA)

NOTE: **Rwy 31**, tree 1338' from departure end of runway, 740' left of centerline, 67' AGL/1193' MSL.

## WINNER, SD

WINNER RGNL (ICR)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-Environmental.

## WINONA, MN

WINONA MUNI-MAX CONRAD FIELD (ONA)

AMDT 3 96228 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, 300-1 or std. with a min. climb of 320' per NM to 800. **Rwy 17**, 600-1 or std. with a min. climb of 500' per NM to 1300. **Rwy 30**, 500-1 or std. with a min. climb of 500' per NM to 1200. **Rwy 35**, 700-1 or std. with a min. climb of 390' per NM to 1500.

DEPARTURE PROCEDURE: **Rwy 12**, climb to 1900 via ONA R-110 before turning. **Rwys 17, 30, 35**, climb runway heading to 1900 before turning.

## WORTHINGTON, MN

WORTHINGTON MUNI (OTG)

AMDT 2 88154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-1.

DEPARTURE PROCEDURE: **Rwys 11, 17, 29, 35**, when weather is below 800-1 climb runway heading to 2400 before turning.

## YANKTON, SD

CHAN GURNEY MUNI (YKN)

AMDT 2 85003 (FAA)

TAKE-OFF MINIMUMS: **Rwy 31**, 300-1.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19, 31**, climb runway heading to 2400 before turning.

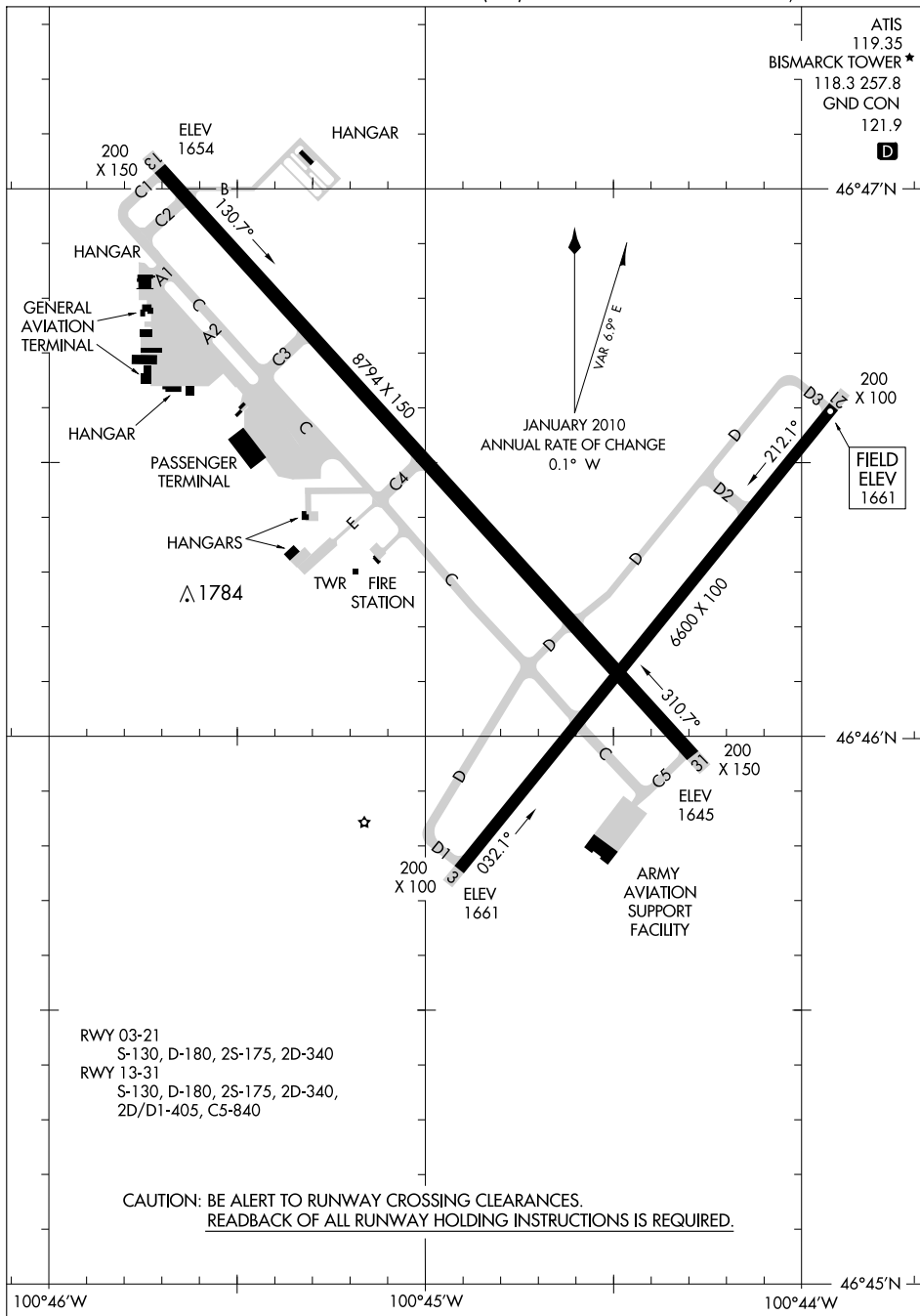
## AIRPORT DIAGRAM

AL-51 (FAA)

BISMARCK MUNI (BIS)

BISMARCK, NORTH DAKOTA

NC-1, 26 AUG 2010 to 23 SEP 2010



NC-1, 26 AUG 2010 to 23 SEP 2010

## AIRPORT DIAGRAM

BISMARCK, NORTH DAKOTA

BISMARCK MUNI (BIS)



**BEULAH** (95D) 2 SW UTC-7(-6DT) N47°15.05' W101°48.84'

1791 B S4 **FUEL** 100LL, JET A1 NOTAM FILE GFK

**Rwy 10-28:** H4000X60 (ASPH) S-12.5 LIRL (NSTD)

**Rwy 10:** Tree.

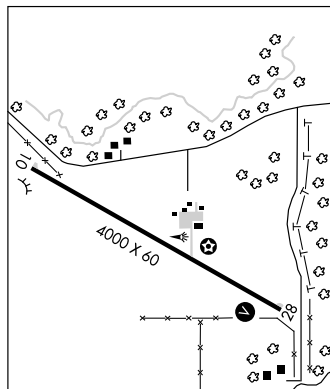
**Rwy 28:** SAVASI(S2L)—GA 3.0° TCH 25'. Road.

**AIRPORT REMARKS:** Attended Mon-Fri 1500-0000Z†. Arpt manager on call continuously 710-873-2311/4100. For fuel call 701-873-4100/2259/2311. Snow removal irregular, confirm winter conditions with arpt manager 701-873-2311/4100. Stacks 600' AGL 6 mile N unlgtd. Lgtd stack 498' AGL located 1.8 NM south. 250' AGL stack with invisible flame to 250' above stack located 8 NM NNW. Arpt located in river valley with 200' ridges surrounding arpt 1500' from thld. Rwy 10-28 NSTD LIRL 20' from edge of asph surface. **ACTIVATE LIRL** Rwy 10-28, rotating bcn and SAVASI Rwy 28—CTAF.

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DIK.

**DICKINSON (H) VORTACW** 112.9 DIK Chan 76 N46°51.60' W102°46.41' 045° 45.8 NM to fld. 2520/14E. **HIWAS.**



**BILLINGS**

**L-14F**

**BISMARCK MUNI** (BIS) 3 SE UTC-6(-5DT) N46°46.36' W100°44.75'

1661 B S4 **FUEL** 100LL, JET A OX 1, 2 Class I, ARFF Index B NOTAM FILE BIS

**Rwy 13-31:** H8794X150 (ASPH-GRVD) S-130, D-180, 2S-175, 2D-340, 2D/D1-405, C5-840

**TWIN CITIES**

**Rwy 13:** MALS. PAPI(P4L)—GA 3.0° TCH 58'. Pole.

**Rwy 31:** MALS. PAPI(P4L)—GA 3.0° TCH 48'.

**Rwy 03-21:** H6600X100 (ASPH-GRVD) S-130, D-180, 2S-175, 2D-340 HIRL

**Rwy 03:** REIL. PAPI(P4L)—GA 3.0° TCH 48'.

**Rwy 21:** REIL. PAPI(P4L)—GA 3.0° TCH 48'.

**RUNWAY DECLARED DISTANCE INFORMATION**

**Rwy 03:** TORA-6600 TODA-6600 ASDA-6600 LDA-6600

**Rwy 13:** TORA-8794 TODA-8794 ASDA-8794 LDA-8794

**Rwy 21:** TORA-6600 TODA-6600 ASDA-6600 LDA-6600

**Rwy 31:** TORA-8794 TODA-8794 ASDA-8794 LDA-8794

**AIRPORT REMARKS:** Attended continuously. For fuel call 701-223-4754 or 701-258-5024. Deer, coyotes and birds on and invov arpt. Rwy 31 touchdown rwy visual range avbl. When twr clsd HIRL Rwy 13-31 and Rwy 03-21 preset med ints, PAPI Rwy 13, Rwy 31, Rwy 03, and Rwy 21 on, **ACTIVATE MALS** Rwy 13 and MALS Rwy 31—CTAF.

**WEATHER DATA SOURCES:** ASOS (701) 255-7563. **HIWAS** 116.5 BIS.

**LAWRS.**

**COMMUNICATIONS:** CTAF 118.3 ATIS 119.35

**UNICOM** 122.95

**RCO** 122.2 (GRAND FORKS RADIO)

Ⓡ **APP/DEP CON** 126.3 (1200-0600Z†)

Ⓡ **MINNEAPOLIS CENTER APP/DEP CON** 126.8 (0600-1200Z†)

**TOWER** 118.3 (1200-0600Z†) **GND CON** 121.9

**AIRSPACE:** CLASS D svc 1200-0600Z† other times CLASS E.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BIS.

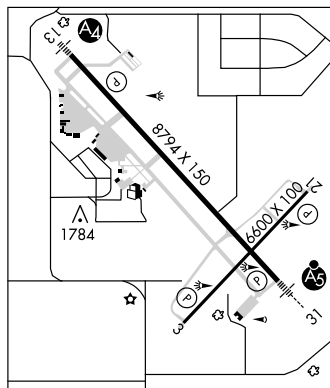
(L) **VORW/DME** 116.5 BIS Chan 112 N46°45.71' W100°39.92' 269° 3.4 NM to fld. 1841/12E. **HIWAS.**

**JADAN NDB (LOM)** 230 BI N46°41.88' W100°38.86' 307° 6.1 NM to fld. Unmonitored.

**ILS** 110.3 I-BIS Rwy 31 Class IB. LOM JADAN NDB. ILS unmonitored when twr clsd.

**ILS** 111.5 I-BZX Rwy 13 Class IE. ILS unmonitored when twr clsd.

**ASR** (1200-0600Z†)



LOC I-BZX <b>111.5</b>	APP CRS <b>127°</b>	Rwy Idg <b>8794</b> TDZE <b>1655</b> Apt Elev <b>1661</b>
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ILS or LOC RWY 13  
BISMARCK MUNI (BIS)

**T**  
**A**  
ASR

Inoperative table does not apply to MALS Rwy 13.

MALS

$A_4$  -  $\frac{1}{2}$

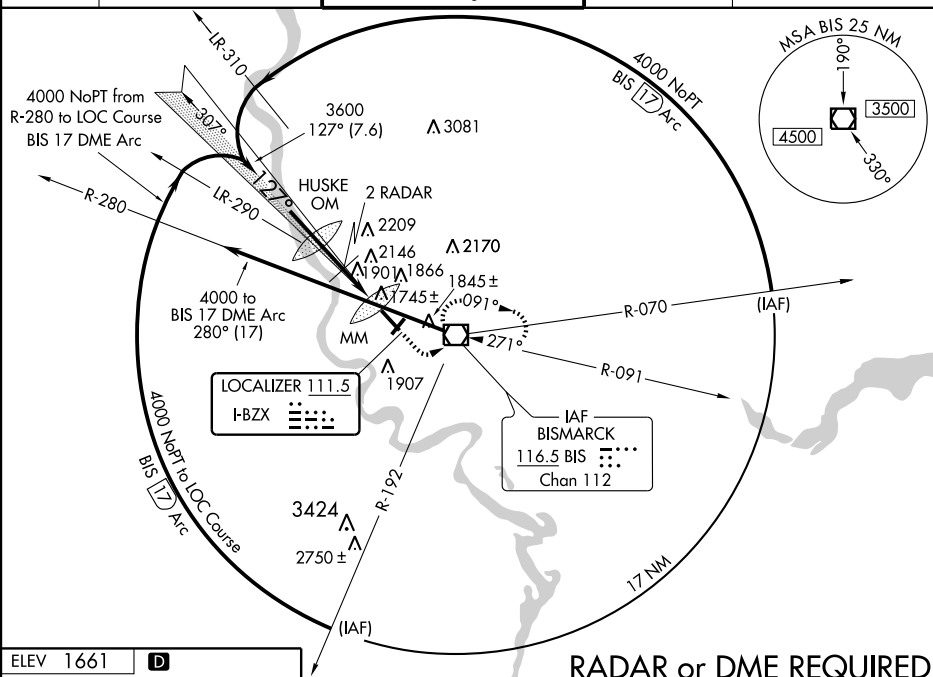
**MISSED APPROACH:** Climb to 2500 then climbing left turn to 3600 direct BIS VOR/DME and hold.

ATIS  
**119.35**

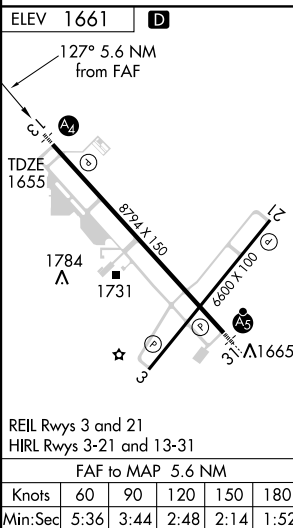
BISMARCK APP CON ★  
126-3 298-9

BISMARCK TOWER★  
118.3 (CTAF) 257.8

GND CON  
121 9

UNICOM  
122 95

RADAR or DME REQUIRED



BISMARCK, NORTH DAKOTA

Amdt 2E 26AUG10

BISMARCK MUNI (BIS)

ILS or LOC RWY 13

46°46' N - 100°45' W

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1. 26 AUG 2010 to 23 SEP 2010

LOC I-BIS <b>110.3</b>	APP CRS <b>307°</b>	Rwy Idg TDZE <b>1645</b> Apt Elev <b>1661</b>
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# ILS or LOC RWY 31

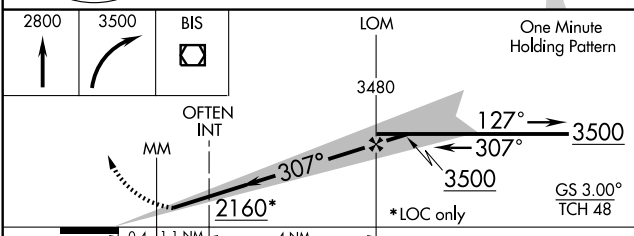
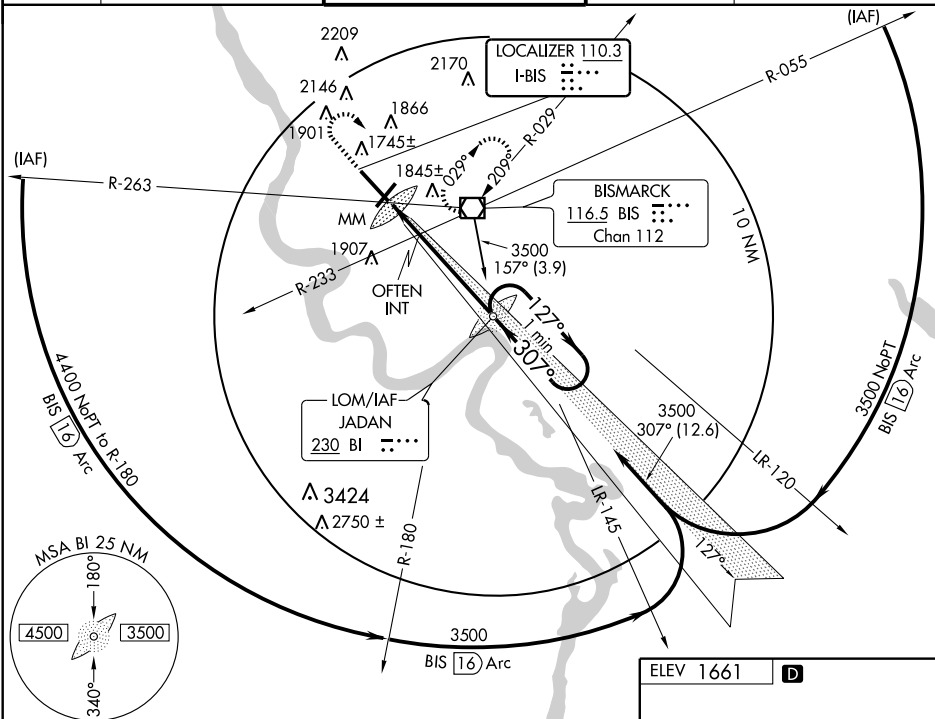
BISMARCK MUNI (BIS)

**V** **A** **ASR** **\*\*RVR 1800 authorized with the use of FD or AP or HUD to DA.**

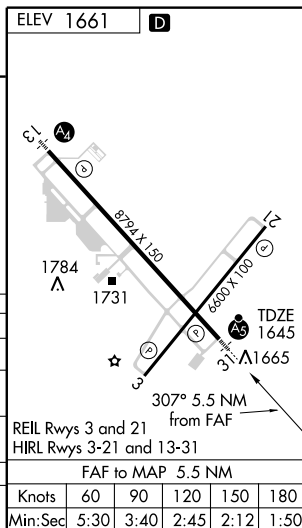


**MISSED APPROACH:** Climb to 2800 then climbing right turn to 3500 direct BIS VOR/DME and hold.

ATIS <b>119.35</b>	BISMARCK APP CON* <b>126.3 298.9</b>	BISMARCK TOWER* <b>118.3 (CTAF) 0 257.8</b>	GND CON <b>121.9</b>	UNICOM <b>122.95</b>
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2800	3500	BIS	LOM	One Minute Holding Pattern
↑	↷	□	3480	
CATEGORY	A	B	C	D
S-ILS 31	** 1845/24 200 (200-½)			
S-LOC 31	2160/24 515 (500-½)	2160/50 515 (500-1)	2160/60 515 (500-1¼)	
CIRCLING	2180-1 519 (600-1)	2200-1 539 (600-1)	2280-2 559 (600-1½)	2280-2 619 (700-2)
OFTEN INT MINIMUMS				
S-LOC 31	2000/24 355 (400-½)	2000/40 355 (400-¾)		



WAAS CH <b>63099</b> <b>W03A</b>	APP CRS <b>028°</b>	Rwy Idg TDZE Apt Elev	<b>6600</b> <b>1661</b> <b>1661</b>
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# RNAV (GPS) RWY 3

BISMARCK MUNI (BIS)

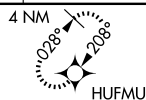
**ASR** If local altimeter setting not received procedure NA.  
Baro-VNAV NA below -18°C (0°F).  
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 4500 direct HUFMU and hold.

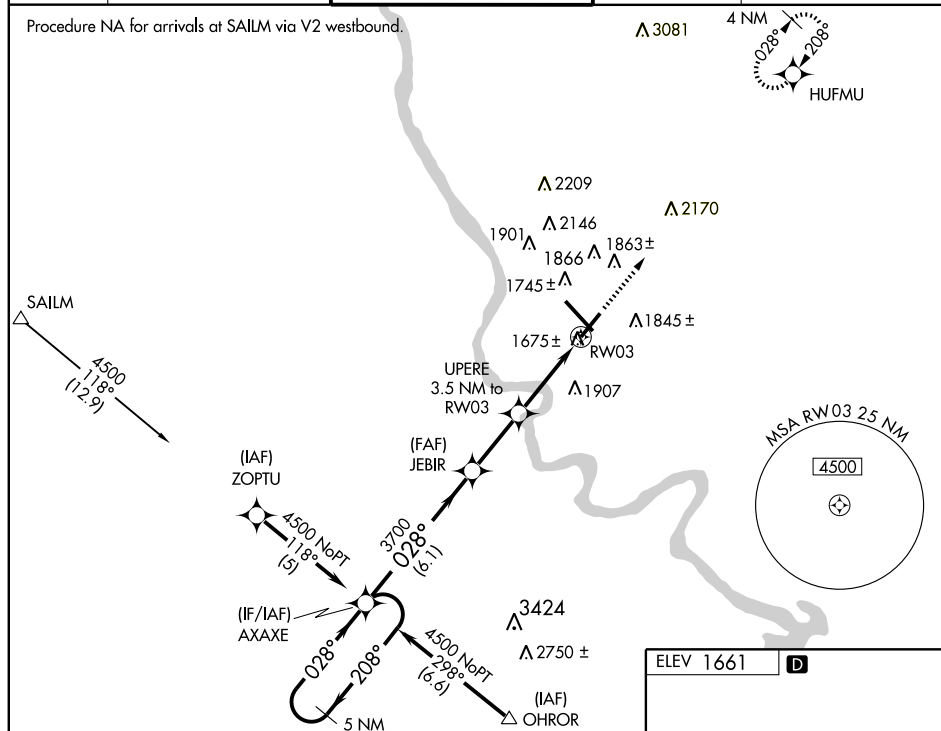
ATIS <b>119.35</b>	BISMARCK APP CON ★ <b>126.3 298.9</b>	BISMARCK TOWER ★ <b>118.3 (CTAF) 0 257.8</b>	GND CON <b>121.9</b>	UNICOM <b>122.95</b>
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Procedure NA for arrivals at SAILM via V2 westbound.

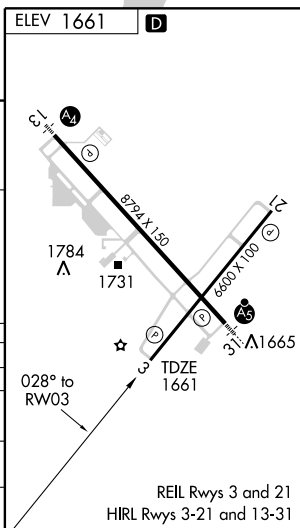
Λ 3081



NC-1, 26 AUG 2010 to 23 SEP 2010



5 NM Holding Pattern		AXAXE		JEBIR		UPERE 3.5 NM to RW03		HUFMU	
4500		208°		028°		3700		2820	
GS 3.00°		TCH 48		6.1 NM		2.6 NM		2.3 NM	
CATEGORY		A		B		C		D	
LPV DA		1911-¾		250 (300-¾)					
LNAV/VNAV DA		2264-2		603 (700-2)					
LNAV MDA		2080-1		419 (500-1)		2080-1¼		419 (500-1¼)	
CIRCLING		2240-2		579 (600-2)		2320-2		659 (700-2)	



APP CRS	Rwy Idg	<b>6600</b>
<b>208°</b>	TDZE	<b>1661</b>
	Apt Elev	<b>1661</b>

# RNAV (GPS) RWY 21

BISMARCK MUNI (BIS)



GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 4500 direct AXAXE WP and hold.

ASR

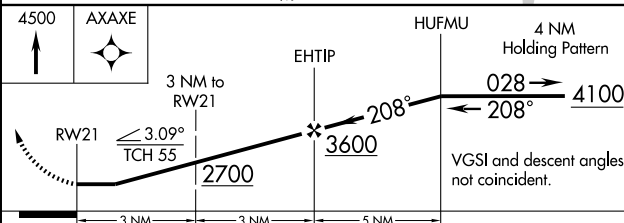
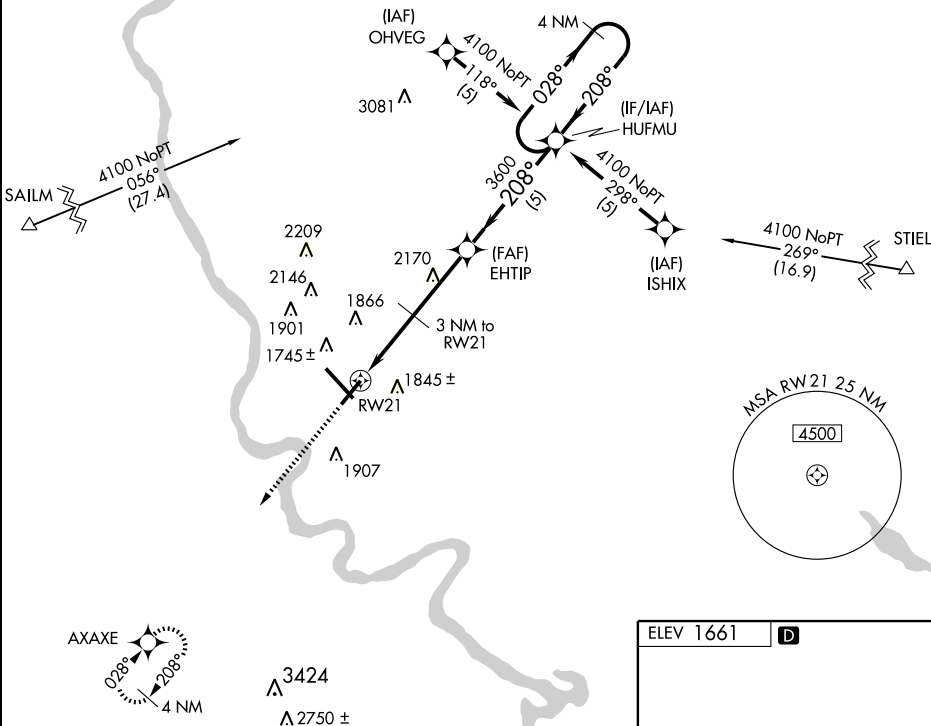
ATIS  
**119.35**

BISMARCK APP CON ★  
**126.3 298.9**

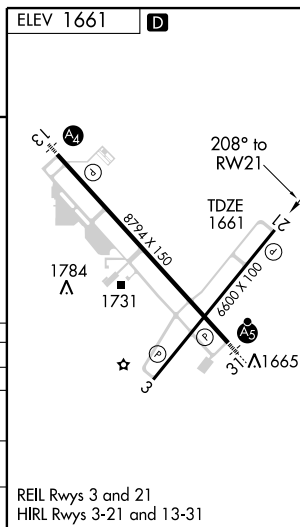
BISMARCK TOWER ★  
**118.3 (CTAF) 0 257.8**

GND CON  
**121.9**

UNICOM  
**122.95**



CATEGORY	A	B	C	D
GLS DA			NA	
LNAV/VNAV DA			NA	
LNAV MDA	2120-1 519 (600-1)	459 (500-1)	2120-1½ 459 (500-1½)	2120-1½ 459 (500-1½)
CIRCLING	2180-1 519 (600-1)	2200-1 539 (600-1)	2220-1½ 559 (600-1½)	2240-2 579 (600-2)



WAAS CH <b>56599</b> <b>W31A</b>	APP CRS <b>307°</b>	Rwy Idg <b>8794</b> TDZE <b>1645</b> Apt Elev <b>1661</b>
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## RNAV (GPS) RWY 31

BISMARCK MUNI (BIS)

**ASR** For inoperative MALSR, increase LPV all Cats visibility to 1.  
Baro-VNAV NA below -18°C (0°F). DME/DME RNP-0.3 NA.  
If local altimeter setting not received, procedure NA.

MALSR



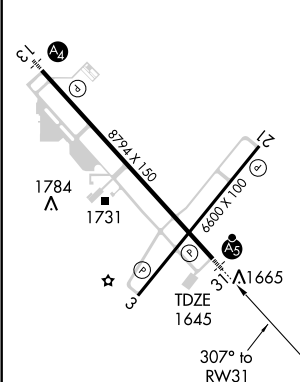
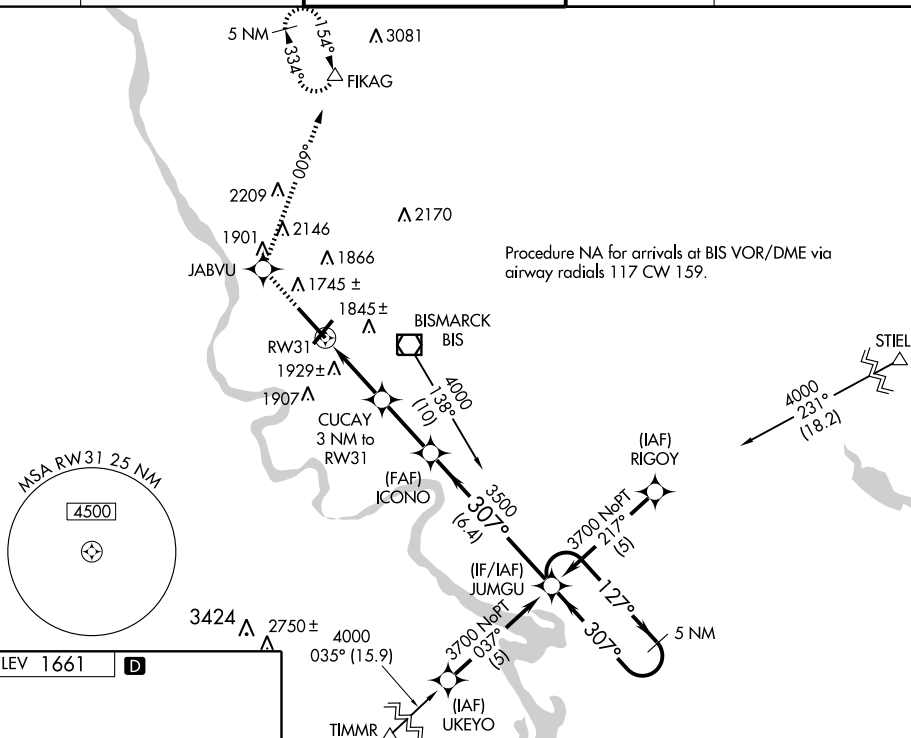
MISSED APPROACH: Climb to 4100 direct JABVU and via 009° track to FIKAG and hold.

ATIS  
**119.35**

BISMARCK APP CON★  
126.3 298.9

BISMARCK TOWER ★  
118.3 (CTAF) L 257.8

GND CON  
**121.9**

UNICOM  
122.95

4100 ↑	JABVU ✦	009° Track	FIKAG △	JUMGU 5 NM Holding Pattern			
*LNAV only		CUCAY 3 NM to RW31	ICONO	127° → ← 307°		3700	GS 3.00° TCH 48
RW31 1.5 NM		2640*	3500	307°		3700	GS 3.00° TCH 48
1.5 NM		2.6 NM	6.4 NM				
CATEGORY	A		B	C		D	
LPV DA			1909/24	264 (300-½)			
LNAV/ VNAV	DA		2268-1¾	623 (700-1¾)			
LNAV MDA	2180/24		535 (600-½)	2180/50 535 (600-1)		2180/60 535 (600-1 ½)	
CIRCLING	2280-1		619 (700-1)	2280-1¾ 619 (700-1¾)		2320-2 659 (700-2)	

BISMARCK, NORTH DAKOTA

Orig-A 10098

BISMARCK MUNI (BIS)

RNAV (GPS) RWY 31

46°46'N-100°45'W

NC-1, 26 AUG 2010 to 23 SEP 2010

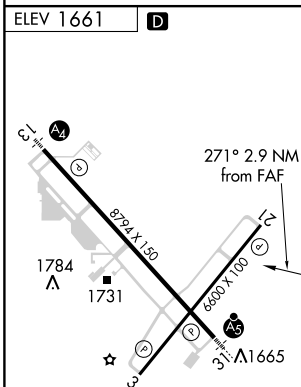
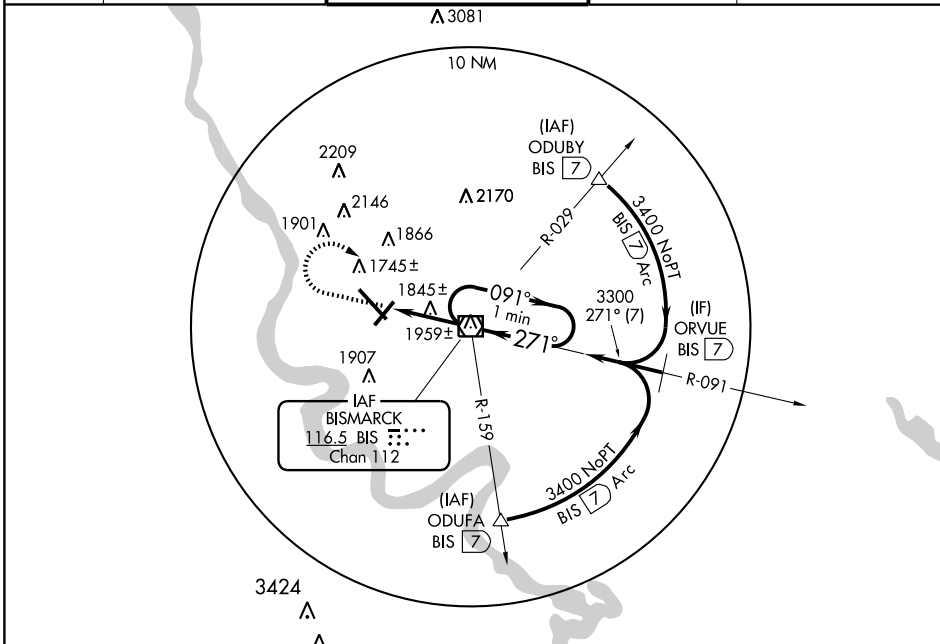
NC-1. 26 AUG 2010 to 23 SEP 2010

VOR/DME BIS <b>116.5</b> Chan <b>112</b>	APP CRS <b>271°</b>	Rwy Idg <b>N/A</b> TDZE <b>N/A</b> Apt Elev <b>1661</b>
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VOR-A  
BISMARCK MUNI (BIS)

<b>T</b>	If local altimeter setting not received procedure not authorized.	MISSED APPROACH: Climb to 3000 then climbing right turn to 3500 direct BIS VOR/DME and hold.
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ATIS <b>119.35</b>	BISMARCK APP CON ★ <b>126.3 298.9</b>	BISMARCK TOWER ★ <b>118.3 (CTAF) 0 257.8</b>	GND CON <b>121.9</b>	UNICOM <b>122.95</b>
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REIL Rwy 3 and 21  
HRL Rwy 3-21 and 13-31

						2.9 NM				
FAF to MAP 2.9 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	2240-1	579 (600-1)	2240-1½ 579 (600-1½)	2320-2 659 (700-2)
Min:Sec	2:54	1:56	1:27	1:10	0:58					

BISMARCK, NORTH DAKOTA  
Amdt 20 10098

BISMARCK MUNI (BIS)

VOR-A

46°46'N-100°45'W

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1. 26 AUG 2010 to 23 SEP 2010





WAAS CH <b>78217</b> <b>W31A</b>	APP CRS <b>307°</b>	Rwy Idg TDZE Apt Elev	<b>3699</b> <b>1675</b> <b>1681</b>
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# RNAV (GPS) RWY 31

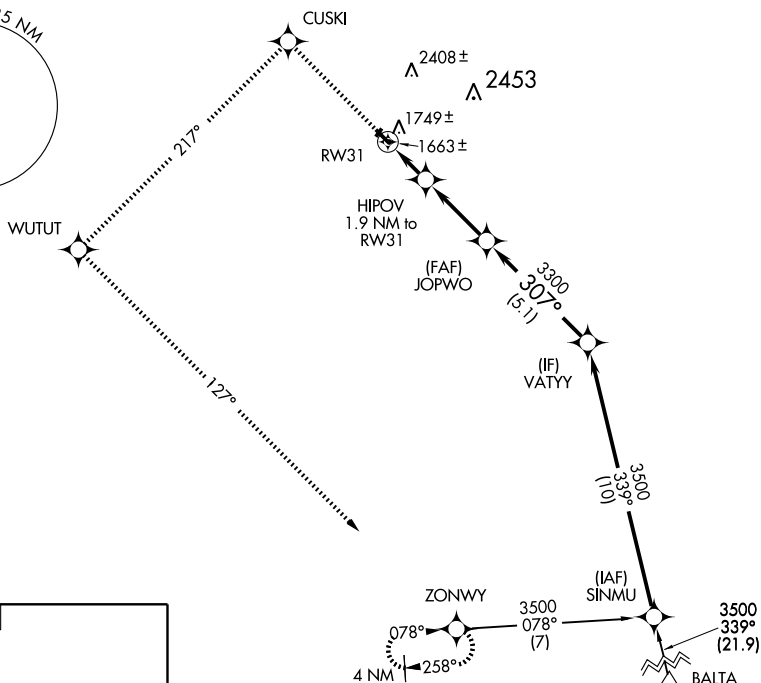
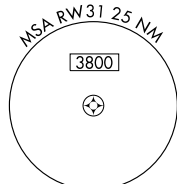
BOTTINEAU MUNI (D09)

**▼** Baro-VNAV NA. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Minot air force base altimeter setting, when not received; use Devils Lake altimeter setting and increase all DA/MDA 100 ft, increase LPV, LNAV/VNAV Cats A/B and Circling Cat B visibility ¼ mile.

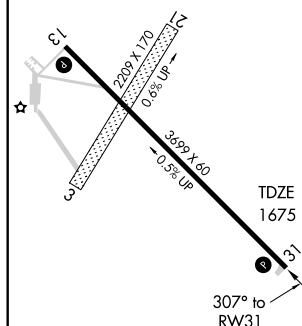
**MISSED APPROACH:** Climb to 3900 direct CUSKI and left turn on track 217° to WUTUT and left turn on track 127° to ZONWY and hold.

MINOT APP CON ★  
**119.6 363.8**

UNICOM  
**122.8 (CTAF) 0**



ELEV 1681



MIRL Rwy 13-31 0

3900 ↑	CUSKI ✧	tr 217°	WUTUT ✧	tr 127°	ZONWY ✧	VATYY Procedure Turn NA
VGSI and RNAV glidepath not coincident.		*HIPOV 1.9 NM to RW31		JOPWO 3300		3500
*LNAV only		RW31		307°		GS 3.00° TCH 40
		*2300		3300		
1.9 NM		3.1 NM		5.1 NM		
CATEGORY	A		B		C	D
LPV DA	2051-1½ 376 (400-1½)				NA	
LNAV/ VNAV DA	2125-1¾ 450 (500-1¾)				NA	
LNAV MDA	2120-1 445 (500-1)				NA	
CIRCLING	2320-1 639 (700-1)		2380-1 699 (700-1)		NA	

BOTTINEAU, NORTH DAKOTA

Orig 03JUN10

48°50'N - 100°25'W

BOTTINEAU MUNI (D09)

# RNAV (GPS) RWY 31

**BOTTINEAU MUNI** (D09) 1 E UTC-6(-5DT) N48°49.83' W100°25.04'

TWIN CITIES

1681 B S4 FUEL 100LL TPA-2681(1000) NOTAM FILE GFK

L-14F

RWY 13-31: H3699X60 (ASPH) S-12.5 MIRL 0.5% up NW

IAP

RWY 13: PAPI(P2R)-GA 3.0° TCH 34'. Road.

RWY 31: PAPI(P2L)-GA 3.0° TCH 30'.

RWY 03-21: 2209X170 (TURF) 0.7% up NE

RWY 03: Trees.

RWY 21: Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z, Sat-Sun on call.

For attendant Sat-Sun call 701-228-5103. For fuel ctc

701-228-5265 after hrs 701-228-5103/2983. Rwy 03-21

CLOSED winter months due to lack of snow removal. Confirm

winter conditions before use after major winter storm with arpt

manager call 701-228-5265. Migratory waterfowl on and in/ov

arpt Sep-Nov. Rwy 03 and Rwy 21 marked with black/white

cones. ACTIVATE MIRL Rwy 13-31 and PAPI Rwy 13 and Rwy

31-CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

⑦ MINOT APP/DEP CON 119.6 (Opr 24 hrs from Mon 1300Z thru Sat

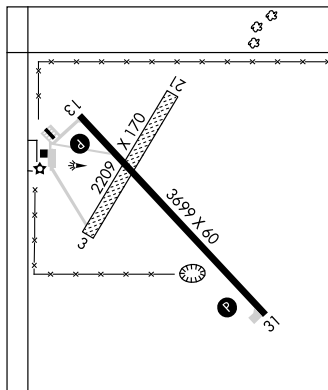
0500Z. Sat and Sun 1300-0500Z.), other hrs ctc

MINNEAPOLIS CENTER APP/DEP CON 127.6

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MOT.

MINOT (H) VORTACW 117.1 MOT Chan 118 N48°15.62'

W101°17.22' 032° 48.7 NM to fld. 1691/13E. HIWAS.

**COMM/NAV/WEATHER REMARKS:** Minot AFB (MIB) ASR OTS for preventive maintenance Fridays 1200-1400Z.**BOWBELLS MUNI** (5B4) 1 N UTC-6(-5DT) N48°48.58' W102°14.73'

BILLINGS

1955 NOTAM FILE GFK

RWY 08-26: 2900X200 (TURF) LIRL (NSTD)

RWY 08: Trees. RWY 26: Thld dsplcd 460'. Railroad.

**AIRPORT REMARKS:** Unattended. Irregular snow removal; confirm rwy condition prior to use; call

701-377-2384/2386/2971. Rwy irregular and soft when wet with water ponding possible. Rwy 26 dsplcd thld

marked only with daltg boundary 3' metal markers. Rwy 08-26 NSTD LIRL; green thld lgts.

**COMMUNICATIONS:** CTAF 122.9**BOWMAN MUNI** (BPP) 2 W UTC-7(-6DT) N46°11.22' W103°25.69'

BILLINGS

2958 B S4 FUEL 100, JET A NOTAM FILE BPP

L-13E

RWY 11-29: H4800X75 (ASPH-AFSC) S-12.5 MIRL

IAP

RWY 11: VASI(V2L)-GA 3.0° TCH 25'. Railroad. Rgt ftc.

RWY 29: VASI(V2L)-GA 3.0° TCH 25'. Tree.

**AIRPORT REMARKS:** Attended Mon-Fri 1500-0000Z. For attendant and

fuel other hours call 701-523-5504/3544/6889. For fuel after

hours call 701-523-5504/3544/6889. Conc fuel pad for heavy

twin acft parking avbl. Confirm snow removal with arpt manager

after major storm. VASI Rwy 11 and 29 ops dusk-0100Z. MIRL

Rwy 11-29 preset on low ints dusk-0100Z, to increase

ints-CTAF. After 0100Z ACTIVATE MIRL Rwy 11-29 and VASI

Rwys 11 and 29-CTAF.

**WEATHER DATA SOURCES:** AWOS-3 374 BOD (701) 523-3412.**COMMUNICATIONS:** CTAF/UNICOM 122.8

RCO 122.4 (GRAND FORKS RADIO)

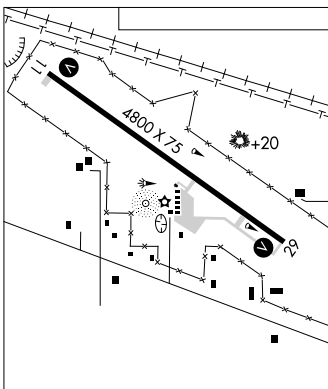
**RADIO AIDS TO NAVIGATION:** NOTAM FILE DIK.

DICKINSON (H) VORTACW 112.9 DIK Chan 76 N46°51.60'

W102°46.41' 200° 48.7 NM to fld. 2520/14E. HIWAS.

NDB (MHW) 374 BOD N46°11.11' W103°25.73' at fld.

AWOS-3. NOTAM FILE GFK.

**BRECKENRIDGE-WAHPETON** N46°14.69' W96°36.22' NOTAM FILE GFK.

TWIN CITIES

NDB (MHW) 233 BWP at Harry Stern.

L-14F

APP CRS <b>295°</b>	Rwy Idg TDZE Apt Elev	<b>4800</b> <b>2958</b> <b>2958</b>
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GPS RWY 29  
BOWMAN MUNI (BPP)

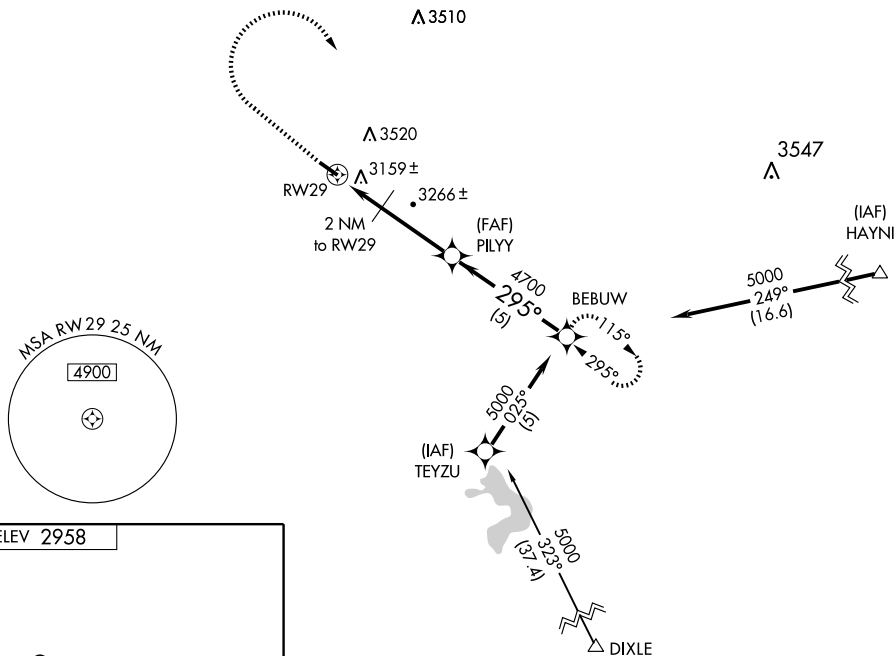
**A NA**

**MISSED APPROACH:** Climb to 4000 then climbing right turn to 5000 direct BEBUW WP and hold.

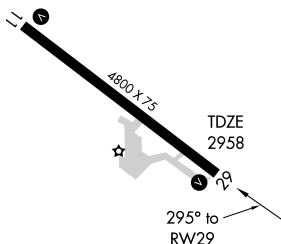
AWOS-3  
374

GRAND FORKS RADIO  
122.4

UNICOM  
122.8 (CTAF) **L**



ELEV 2958

MIRL Rwy 11-29 **L**

BOWMAN, NORTH DAKOTA  
Orig 07018

46°11'N-103°26'W

BOWMAN MUNI (BPP)  
GPS RWY 29

NC-1. 26 AUG 2010 to 23 SEP 2010

NDB BOD <b>374</b>	APP CRS <b>288°</b>	Rwy Idg TDZE Apt Elev	<b>4800</b> <b>2958</b> <b>2958</b>
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# NDB RWY 29

BOWMAN MUNI (BPP)

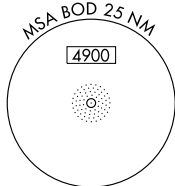
▲ NA

MISSED APPROACH: Climb to 4000 then climbing left turn to 4800 direct BOD NDB and hold.

AWOS-3  
**374**

GRAND FORKS RADIO  
**122.4**

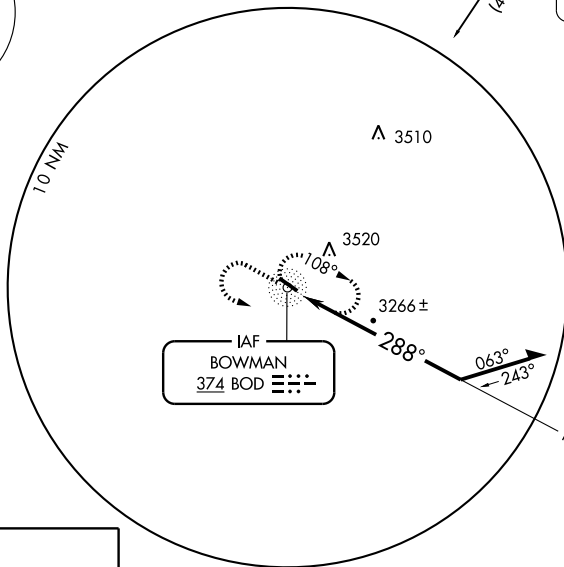
UNICOM  
**122.8 (CTAF)**



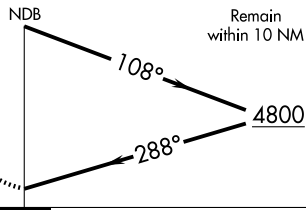
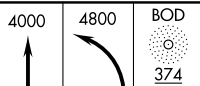
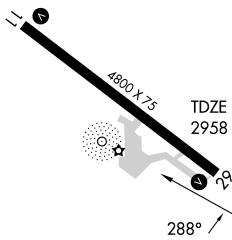
3879 ▲



DICKINSON  
112.9 DIK  
Chan 76



ELEV 2958



MIRL Rwy 11-29

CATEGORY	A	B	C	D
S-29	3620-1	662 (700-1)	3620-1¾ 662 (700-1¾)	NA
CIRCLING	3620-1	662 (700-1)	3800-2½ 842 (900-2½)	NA

**CANDO MUNI** (9D7) 1 W UTC-6(-5DT) N48°28.80' W99°14.18'

TWIN CITIES

1481 B NOTAM FILE GFK

L-146

RWY 16-34: H3500X60 (ASPH) MIRL

RWY 16: PAPI(P2L)—GA 3.0° TCH 25'.

RWY 34: PAPI(P2L)—GA 3.0° TCH 25'.

**AIRPORT REMARKS:** Unattended. Migratory waterfowl in vicinity of arpt Mar-Apr and Sep-Oct. Irregular snow removal winter months, confirm winter condition prior to use with arpt manager. MIRL Rwy 16-34 opr dusk-0400Z†, after 0400Z‡ ACTIVATE—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.125 (701) 968-3625.

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DVL.

DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91' W98°54.75' 322° 25.5 NM to fld. 1448/7E.

**CARRINGTON MUNI** (46D) 1 W UTC-6(-5DT) N47°27.07' W99°09.08'

TWIN CITIES

1607 B FUEL 100LL NOTAM FILE GFK

L-146

RWY 13-31: H4198X75 (ASPH) MIRL

IAP

RWY 13: PAPI(P2L)—GA 3.0° TCH 25'. Road.

RWY 31: PAPI(P2L)—GA 3.0° TCH 25'. Trees.

**AIRPORT REMARKS:** Unattended. Self svc 24hr credit card fuel avbl. For snow removal information; ctc city hall 701-652-2911. Numerous agriculture ops Jun-Aug. N apron CLOSED to acft over 1000 lbs. Rwy 13 has 6' ditch 120' L of extended centerline outbound fm thld. MIRL Rwy 13-31 opr dusk-0600Z†, after 0600Z‡ ACTIVATE MIRL Rwy 13-31, PAPI Rwy 13 and Rwy 31—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.575 (701) 652-1875.

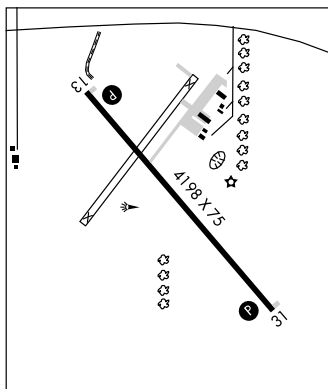
**COMMUNICATIONS:** CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 124.2

**RADIO AIDS TO NAVIGATION:** NOTAM FILE JMS.

JAMESTOWN (L) VORW/DME 114.5 JMS Chan 92 N46°55.97'

W98°40.73' 318° 36.6 NM to fld. 1493/10E. HIWAS.



**CASSELTON ROBERT MILLER RGNL** (5N8) 4 S UTC-6(-5DT) N46°51.24' W97°12.47'

TWIN CITIES

933 S4 FUEL 100LL NOTAM FILE GFK

L-146

RWY 13-31: H3900X75 (CONC) S-12.5 MIRL

IAP

RWY 13: PAPI(P2R)—GA 2.5° TCH 20'. Road.

RWY 31: REIL. PAPI(P2L)—GA 2.5° TCH 20'. Road.

**AIRPORT REMARKS:** Attended Oct-May Mon-Sat 1400-2300Z†, Jun-Sep Mon-Sat 1400-0400Z†, Sun on call. For attendance after hours call 701-347-4680/5519. Self svc credit card 100LL fuel avbl 24 hrs. Confirm winter conditions and snow removal with arpt manager, call 701-347-4680 between 1400-2300Z† daily. Numerous agriculture operations May-Oct. Rwy 13-31 parallel twy marked with reflectors. Acft paint shop avbl 701-347-5262. Rwy 31 PAPI OTS indef. ACTIVATE MIRL Rwy 13-31 and PAPI Rwy 13 and Rwy 31 and REIL Rwy 31—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.8.

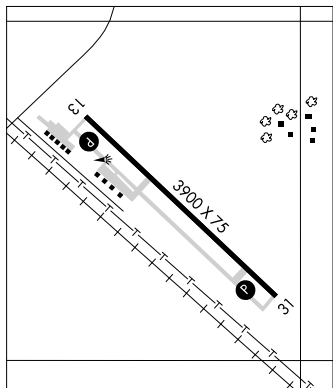
® FARGO APP/DEP CON 120.4 (1200-0500Z†)

® MINNEAPOLIS CENTER APP/DEP CON 127.35 (Mon-Fri 0500-1200Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE FAR.

FARGO (H) VORTACW 116.2 FAR Chan 109 N46°45.20'

W96°51.08' 283° 15.9 NM to fld. 910/9E. HIWAS.



APP CRS **313°**  
 Rwy Idg **4198**  
 TDZE **1604**  
 Apt Elev **1606**

**GPS RWY 31**  
 CARRINGTON MUNI (46D)



Use Jamestown altimeter setting.  
 Procedure NA at night.

MISSED APPROACH: Climbing right turn to 3100 direct  
 IWACU WP and hold.

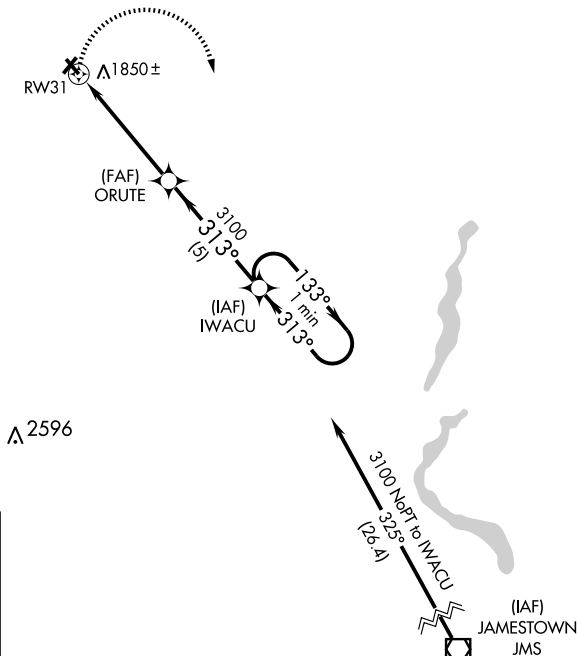
AWOS-3  
**118.575**

MINNEAPOLIS CENTER  
**124.2 270.3**

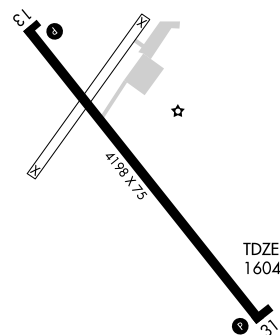
CTAF  
**122.9 0**

MSA RW31 25 NM

3600



ELEV 1606



MIRL Rwy 13-31 0

CATEGORY	A		B		C		D	
	2200-1		596 (600-1)		2200-1½		596 (600-1½)	
S-31	2200-1		596 (600-1)		2200-1½		596 (600-1½)	
CIRCLING	2300-1		694 (700-1)		2300-2		694 (700-2)	

CARRINGTON, NORTH DAKOTA

Orig 09295

CARRINGTON MUNI (46D)

**GPS RWY 31**

47°27'N - 99°09'W

**CANDO MUNI** (9D7) 1 W UTC-6(-5DT) N48°28.80' W99°14.18'

TWIN CITIES

1481 B NOTAM FILE GFK

L-146

RWY 16-34: H3500X60 (ASPH) MIRL

RWY 16: PAPI(P2L)—GA 3.0° TCH 25'.

RWY 34: PAPI(P2L)—GA 3.0° TCH 25'.

**AIRPORT REMARKS:** Unattended. Migratory waterfowl in vicinity of arpt Mar-Apr and Sep-Oct. Irregular snow removal winter months, confirm winter condition prior to use with arpt manager. MIRL Rwy 16-34 opr dusk-0400Z†, after 0400Z‡ ACTIVATE—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.125 (701) 968-3625.

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DVL.

DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91' W98°54.75' 322° 25.5 NM to fld. 1448/7E.

**CARRINGTON MUNI** (46D) 1 W UTC-6(-5DT) N47°27.07' W99°09.08'

TWIN CITIES

1607 B FUEL 100LL NOTAM FILE GFK

L-146

RWY 13-31: H4198X75 (ASPH) MIRL

IAP

RWY 13: PAPI(P2L)—GA 3.0° TCH 25'. Road.

RWY 31: PAPI(P2L)—GA 3.0° TCH 25'. Trees.

**AIRPORT REMARKS:** Unattended. Self svc 24hr credit card fuel avbl. For snow removal information; ctc city hall 701-652-2911. Numerous agriculture ops Jun-Aug. N apron CLOSED to acft over 1000 lbs. Rwy 13 has 6' ditch 120' L of extended centerline outbound fm thld. MIRL Rwy 13-31 opr dusk-0600Z†, after 0600Z‡ ACTIVATE MIRL Rwy 13-31, PAPI Rwy 13 and Rwy 31—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.575 (701) 652-1875.

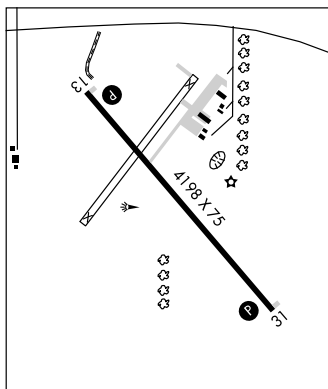
**COMMUNICATIONS:** CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 124.2

**RADIO AIDS TO NAVIGATION:** NOTAM FILE JMS.

JAMESTOWN (L) VORW/DME 114.5 JMS Chan 92 N46°55.97'

W98°40.73' 318° 36.6 NM to fld. 1493/10E. HIWAS.



**CASSELTON ROBERT MILLER RGNL** (5N8) 4 S UTC-6(-5DT) N46°51.24' W97°12.47'

TWIN CITIES

933 S4 FUEL 100LL NOTAM FILE GFK

L-146

RWY 13-31: H3900X75 (CONC) S-12.5 MIRL

IAP

RWY 13: PAPI(P2R)—GA 2.5° TCH 20'. Road.

RWY 31: REIL. PAPI(P2L)—GA 2.5° TCH 20'. Road.

**AIRPORT REMARKS:** Attended Oct-May Mon-Sat 1400-2300Z†, Jun-Sep Mon-Sat 1400-0400Z†, Sun on call. For attendance after hours call 701-347-4680/5519. Self svc credit card 100LL fuel avbl 24 hrs. Confirm winter conditions and snow removal with arpt manager, call 701-347-4680 between 1400-2300Z† daily. Numerous agriculture operations May-Oct. Rwy 13-31 parallel twy marked with reflectors. Acft paint shop avbl 701-347-5262. Rwy 31 PAPI OTS indef. ACTIVATE MIRL Rwy 13-31 and PAPI Rwy 13 and Rwy 31 and REIL Rwy 31—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.8.

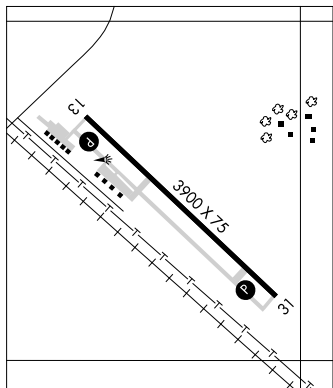
® FARGO APP/DEP CON 120.4 (1200-0500Z†)

® MINNEAPOLIS CENTER APP/DEP CON 127.35 (Mon-Fri 0500-1200Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE FAR.

FARGO (H) VORTACW 116.2 FAR Chan 109 N46°45.20'

W96°51.08' 283° 15.9 NM to fld. 910/9E. HIWAS.



APP CRS **128°**  
 Rwy Idg **3900**  
 TDZE **933**  
 Apt Elev **933**

# RNAV (GPS) RWY 13

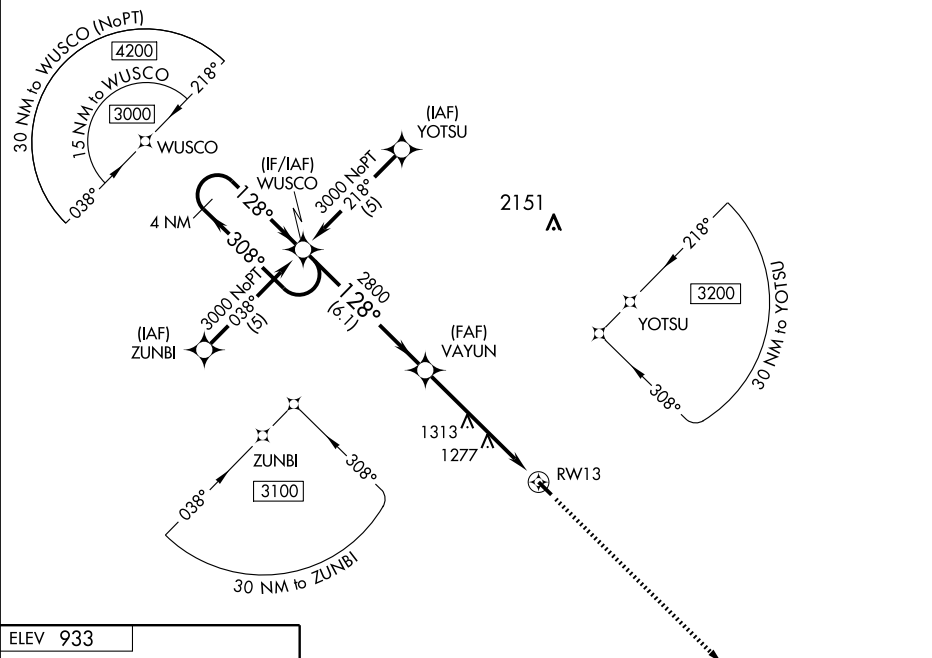
CASSELTON ROBERT MILLER RGNL (5N8)

**▼** Use Fargo altimeter setting; when not received use  
**▲ NA** Morehead altimeter setting and increase all MDA 20 feet.  
 DME/DME RNP-0.3 NA.

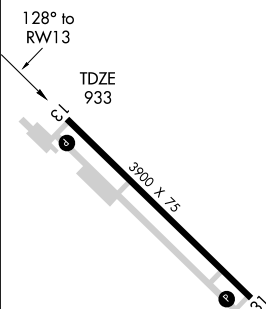
MISSED APPROACH: Climb to 3000  
 direct JINPU and hold.

FARGO APP CON ★  
**120.4 377.15**

UNICOM  
**122.8 (CTAF) 0**



ELEV 933

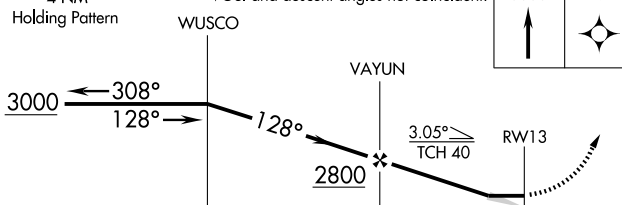


REIL Rwy 31 **0**  
 MIRL Rwy 13-31 **0**

CASSELTON, NORTH DAKOTA

Amdt 1 08213

4 NM VGSI and descent angles not coincident.



CATEGORY	A	B	C	D
LNAB MDA	1620-1	687 (700-1)	1620-2 687 (700-2)	NA
CIRCLING	1620-1	687 (700-1)	1620-2 687 (700-2)	NA

CASSELTON ROBERT MILLER RGNL (5N8)

# RNAV (GPS) RWY 13



WAAS CH <b>53607</b> <b>W31A</b>	APP CRS <b>308°</b>	Rwy Idg <b>3900</b> TDZE <b>933</b> Apt Elev <b>933</b>
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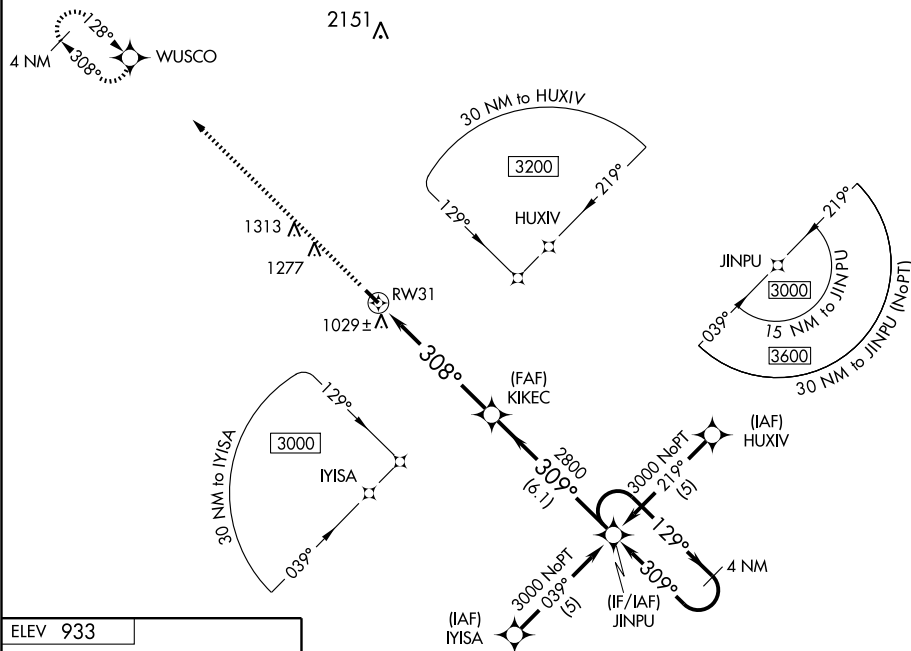
RNAV (GPS) RWY 31  
CASSELTON ROBERT MILLER RGNL (5N8)

**T** Use Fargo altimeter setting; when not received, use Morehead  
**A** altimeter setting and increase all DA 11 feet and all MDA 20 feet,  
 NA increase LNAV Cat C visibility ¼ mile. Baro-VNAV NP.  
 Visibility reduction by helicopters NA. DME/DME RNP-0.3 NA.

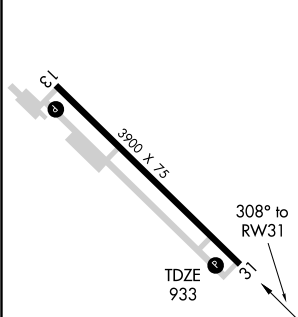
**MISSED APPROACH:** Climb to 3000  
direct WUSCO and hold.

FARGO APP CON ★  
120.4 377.15

UNICOM  
122.8 (CTAF) **L**



ELEV 933



REIL Rwy 31 L

MIRL Rwy 13-31 **L**

CASSELTON, NORTH DAKOTA

Amdt 1 08213

46°51'N-97°13'W

CASSELTON ROBERT MILLER RGNL (5N8)

RNAV (GPS) RWY 31

NC-1. 26 AUG 2010 to 23 SEP 2010

VORTAC FAR <b>116.2</b> Chan <b>109</b>	APP CRS <b>283°</b>	Rwy Idg TDZE Apt Elev <b>3900</b> <b>929</b> <b>933</b>
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# VOR/DME RWY 31

CASSELTON ROBERT MILLER RGNL (5N8)

**V** Use Fargo altimeter setting; if not received, use Morehead altimeter setting.

**Δ** NA

MISSED APPROACH: Climbing left turn to 2800 direct FAR VORTAC and hold.

FARGO ASOS  
**124.5**

FARGO APP CON ★  
**120.4 377.15**

UNICOM  
**122.8** (CTAF) **0**

Δ 2151

Δ 1313  
Δ 1277

Δ 1034 ±

TRONA  
FAR **10**

2800  
**283°**  
(10)

IF/IAF  
FARGO  
**116.2** FAR **116.2**  
Chan **109**

**283°**  
1 min  
**103°** R-103

MSA FAR 25 NM

090° →  
360°  
**3600**  
**2800**

2800  
FAR  
**116.2**

TRONA  
FAR **10**

VORTAC

One Minute  
Holding Pattern

FAR **15.6**  
3.07°  
TCH 40

2800  
**283°**

**103°** → **2800**  
← **283°**

VGSI and descent angles  
not coincident

5.6 NM 10 NM

CATEGORY	A	B	C	D
S-31	1360-1	431 (500-1)	1360-1¼ 431 (500-1¼)	NA
CIRCLING	1400-1	467 (500-1)	1400-1½ 467 (500-1½)	NA

ELEV **933**

3000 X 75  
283° 5.6 NM from FAF  
TDZE **929**

REIL Rwy 31 **0**  
MIRL Rwy 13-31 **0**

**CAVALIER MUNI** (2C8) 1 SW UTC-6(-5DT) N48°47.02' W97°37.92'

TWIN CITIES

892 B S2 FUEL 100LL NOTAM FILE GFK

L-146

RWY 16-34: H3299X60 (ASPH) S-12.5 MIRL

IAP

RWY 16: PAPI(P2L)—GA 3.0° TCH 26'. Lgt'd P-line.

RWY 34: PAPI(P2L)—GA 4.0° TCH 36'. P-line.

AIRPORT REMARKS: Attended on call. For fuel call

701-265-8656/3186. Confirm snow removal with arpt manager after winter storm. Helipad located S edge of apron. MIRL Rwy 16-34, and PAPI Rwy 16 and Rwy 34 preset until 0400Z, after 0400Z—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.275 (701) 265-8050.

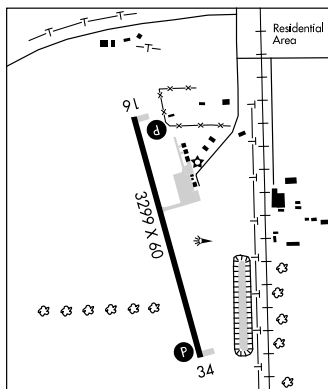
COMMUNICATIONS: CTAF/UNICOM 122.8

DEVILS LAKE RCO 122.3 (GRAND FORKS RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE PNM.

HUMBOLDT (H) VORTAC 112.4 HML Chan 71 N48°52.15'

W97°07.03' 247° 21.0 NM to fld. 800/9E.

**COLUMBUS MUNI** (D49) 1 SW UTC-6(-5DT) N48°53.92' W102°47.53'

BILLINGS

1930 NOTAM FILE 049

RWY 07-25: 2560X100 (TURF)

RWY 07: VASI(NSTD)—GA 5.0° TCH 13'.

RWY 25: VASI(NSTD)—GA 5.0° TCH 13'. Thld dsplcd 200'. Road.

AIRPORT REMARKS: Unattended. No snow removal avbl winter months, confirm winter conditions with arpt manager 701-939-5288/4511/6671/7831. Rwy 07 and Rwy 25 APAP left and right sides. Rwy 25 has 5' ditch 30' from threshold. Rwy 07-25 plywood panels lgtd ngt. Rwy 07-25 has threshold end lgts with reflector side panels for ngt use as test arpt ngt landing site. Rwy 07-25 marked with black/white edge and end panels.

COMMUNICATIONS: CTAF 122.9

**COOPERSTOWN MUNI** (S32) 2 SE UTC-6(-5DT) N47°25.40' W98°06.39'

TWIN CITIES

1424 FUEL 100LL NOTAM FILE GFK

L-146

RWY 13-31: H3500X60 (ASPH) S-12.5 MIRL

IAP

RWY 13: PAPI(P2L)—GA 3.0° TCH 25'. Road.

RWY 31: PAPI(P2L)—GA 3.0° TCH 25'. P-line.

AIRPORT REMARKS: Attended Oct-Apr on call, May-Sep 1400-2300Z. Self svc 100LL fuel credit card svc 24 hrs avbl. Confirm winter conditions and snow removal with arpt manager on 701-789-0666/3700/3613. Rwy 13— +17' road also on centerline extended. Rwy 31 apch has 80' p-line 1/4 mile fm thld. Helicopter ldg area located east apron edge; snow removal irregular. Rwy 13-31 MIRL OTS indef. MIRL on Rwy 13-31 preset on low ints, to increase ints and ACTIVATE PAPI Rwy 13 and Rwy 31—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.750 (701) 797-2566.

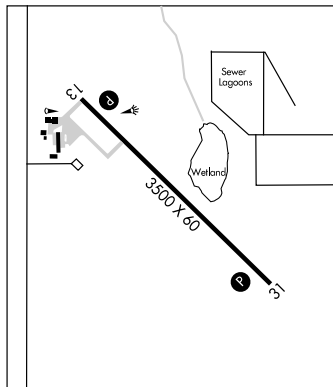
COMMUNICATIONS: CTAF 122.9

JAMESTOWN RCO 123.6 (GRAND FORKS RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE JMS.

JAMESTOWN (L) VOR/DME 114.5 JMS Chan 92 N46°55.97'

W98°40.73' 028° 37.6 NM to fld. 1493/10E. HIWAS.



APP CRS **340°**  
Rwy Idg **3299**  
TDZE **892**  
Apt Elev **892**

# RNAV (GPS) RWY 34

CAVALIER MUNI (2C8)

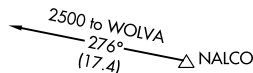
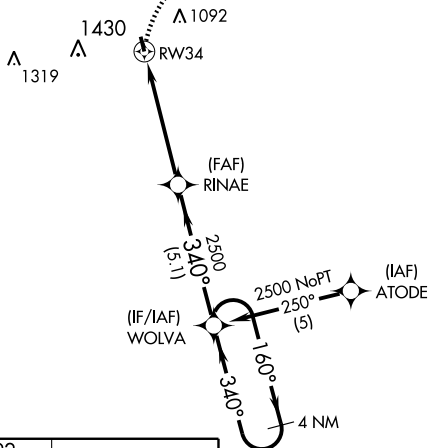
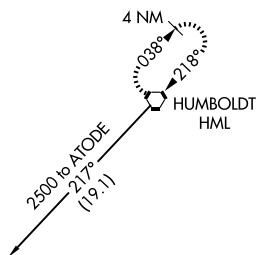
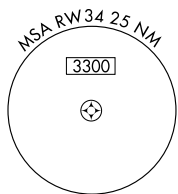
▼ Use Hallock altimeter setting.  
▲ NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 3500 direct HML VORTAC and hold.

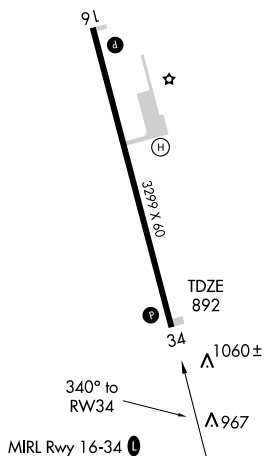
AWOS-3  
**118.275**






GRAND FORKS RADIO  
**122.3**

UNICOM  
**122.8 (CTAF) 0**



ELEV 892



<div><div><div>3500</div><div></div></div><div><div>HML</div><div></div></div></div>		<div>4 NM Holding Pattern</div>		
<div><div><div>RW34</div><div></div></div><div><div>RINAE</div><div></div></div></div>		<div><div>WOLVA</div><div></div></div>	<div><div>160° →</div><div>← 340°</div><div>2500</div></div>	
<div><div>3.04°</div><div>TCH 40</div></div>		<div><div>4.9 NM</div><div>5.1 NM</div></div>	<div>VGSI and descent angles not coincident.</div>	
CATEGORY	A	B	C	D
RNAV MDA	1440-1	548 (600-1)	1440-1½ 548 (600-1½)	NA
CIRCLING	1500-1	608 (700-1)	1500-1¾ 608 (700-1¾)	NA

**CAVALIER MUNI** (2C8) 1 SW UTC-6(-5DT) N48°47.02' W97°37.92'

TWIN CITIES

892 B S2 FUEL 100LL NOTAM FILE GFK

L-146

RWY 16-34: H3299X60 (ASPH) S-12.5 MIRL

IAP

RWY 16: PAPI(P2L)—GA 3.0° TCH 26'. Lgt'd P-line.

RWY 34: PAPI(P2L)—GA 4.0° TCH 36'. P-line.

AIRPORT REMARKS: Attended on call. For fuel call

701-265-8656/3186. Confirm snow removal with arpt manager after winter storm. Helipad located S edge of apron. MIRL Rwy 16-34, and PAPI Rwy 16 and Rwy 34 preset until 0400Z, after 0400Z—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.275 (701) 265-8050.

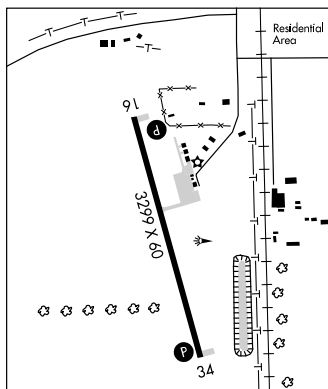
COMMUNICATIONS: CTAF/UNICOM 122.8

DEVILS LAKE RCO 122.3 (GRAND FORKS RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE PNM.

HUMBOLDT (H) VORTAC 112.4 HML Chan 71 N48°52.15'

W97°07.03' 247° 21.0 NM to fld. 800/9E.

**COLUMBUS MUNI** (D49) 1 SW UTC-6(-5DT) N48°53.92' W102°47.53'

BILLINGS

1930 NOTAM FILE 049

RWY 07-25: 2560X100 (TURF)

RWY 07: VASI(NSTD)—GA 5.0° TCH 13'.

RWY 25: VASI(NSTD)—GA 5.0° TCH 13'. Thld dsplcd 200'. Road.

AIRPORT REMARKS: Unattended. No snow removal avbl winter months, confirm winter conditions with arpt manager 701-939-5288/4511/6671/7831. Rwy 07 and Rwy 25 APAP left and right sides. Rwy 25 has 5' ditch 30' from threshold. Rwy 07-25 plywood panels lgtd ngt. Rwy 07-25 has threshold end lgts with reflector side panels for ngt use as test arpt ngt landing site. Rwy 07-25 marked with black/white edge and end panels.

COMMUNICATIONS: CTAF 122.9

**COOPERSTOWN MUNI** (S32) 2 SE UTC-6(-5DT) N47°25.40' W98°06.39'

TWIN CITIES

1424 FUEL 100LL NOTAM FILE GFK

L-146

RWY 13-31: H3500X60 (ASPH) S-12.5 MIRL

IAP

RWY 13: PAPI(P2L)—GA 3.0° TCH 25'. Road.

RWY 31: PAPI(P2L)—GA 3.0° TCH 25'. P-line.

AIRPORT REMARKS: Attended Oct-Apr on call, May-Sep 1400-2300Z.

Self svc 100LL fuel credit card svc 24 hrs avbl. Confirm winter conditions and snow removal with arpt manager on 701-789-0666/3700/3613. Rwy 13— +17' road also on centerline extended. Rwy 31 apch has 80' p-line ¼ mile fm thld. Helicopter ldg area located east apron edge; snow removal irregular. Rwy 13-31 MIRL OTS indef. MIRL on Rwy 13-31 preset on low ints, to increase ints and ACTIVATE PAPI Rwy 13 and Rwy 31—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.750 (701) 797-2566.

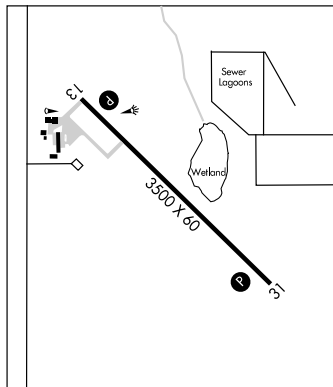
COMMUNICATIONS: CTAF 122.9

JAMESTOWN RCO 123.6 (GRAND FORKS RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE JMS.

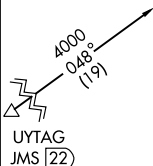
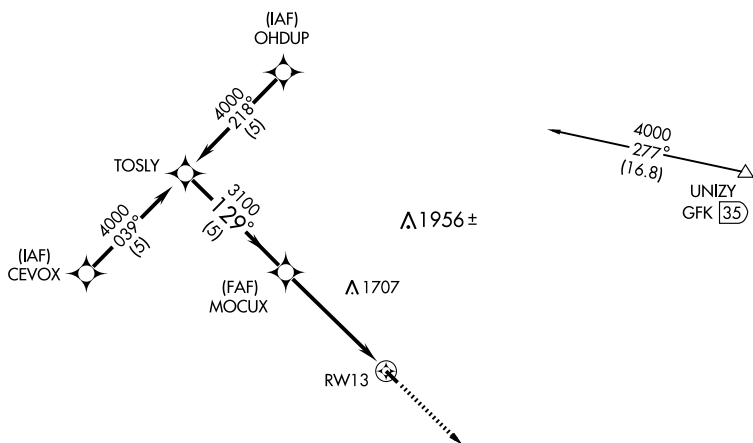
JAMESTOWN (L) VOR/DME 114.5 JMS Chan 92 N46°55.97'

W98°40.73' 028° 37.6 NM to fld. 1493/10E. HIWAS.

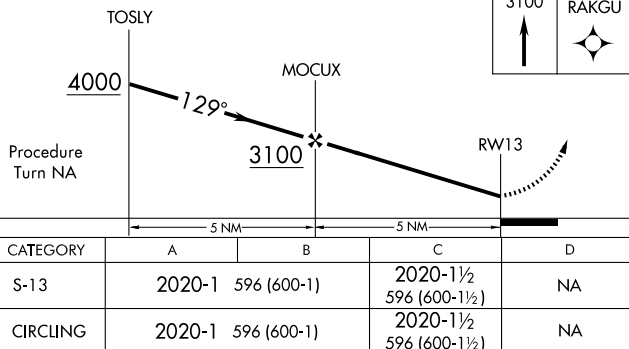
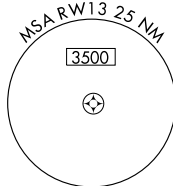
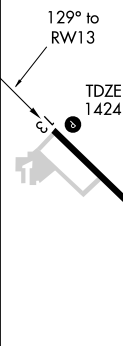


APP CRS  
**129°**Rwy Idg **3500**  
TDZE **1424**  
Apt Elev **1424****GPS RWY 13**  
COOPERSTOWN MUNI (S32)

<b>▲</b> NA	Use Jamestown altimeter setting.	MISSED APPROACH: Climb to 3100 direct RAKGU WP and hold.

AWOS-3  
**118.750**GRAND FORKS RADIO  
**123.6**CTAF  
**122.9**

ELEV 1424



MIRL Rwy 13-31

APP CRS <b>309°</b>	Rwy Idg TDZE Apt Elev	<b>3500</b> <b>1424</b> <b>1424</b>
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# GPS RWY 31

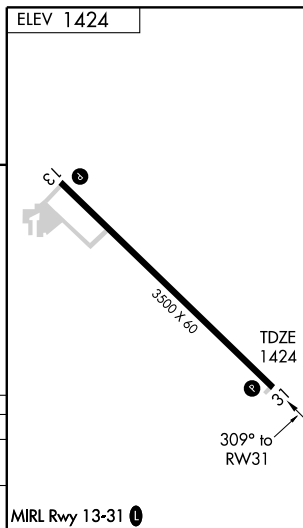
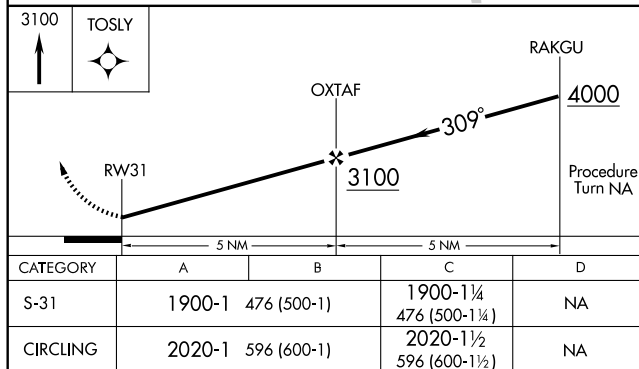
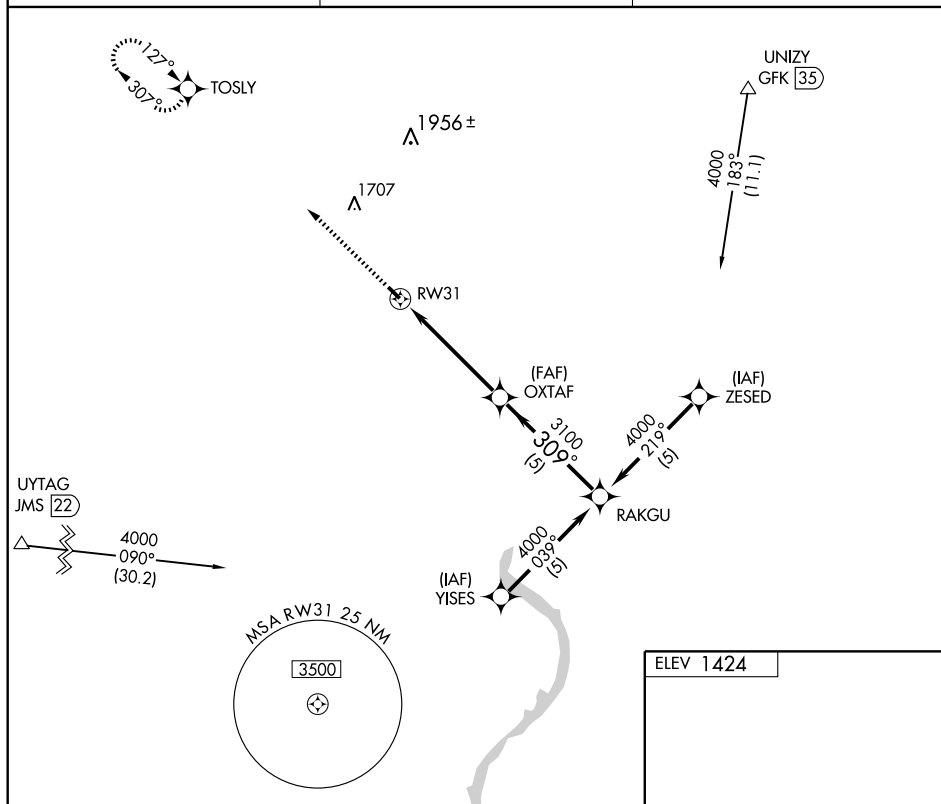
COOPERSTOWN MUNI (S32)

▲ NA	Use Jamestown altimeter setting.	MISSED APPROACH: Climb to 3100 direct TOSLY WP and hold.
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AWOS-3  
**118.750**

GRAND FORKS RADIO  
**123.6**

CTAF  
**122.9**



**CROSBY MUNI** (D5Ø) 1 N UTC-6(-5DT) N48°55.71' W103°17.84'

BILLINGS

L-13E, 14F

IAP

1950 B FUEL 100 NOTAM FILE GFK

RWY 12-30: H3800X60 (ASPH) S-12.5 MIRL

RWY 12: PAPI (P2L)—GA 3.0° TCH 22'. P-line.

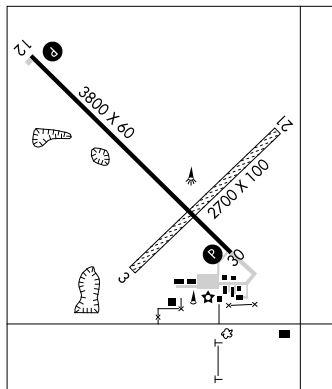
RWY 30: PAPI (P2L)—GA 3.0° TCH 23'. Road.

RWY 03-21: 2700X100 (TURF) 0.3% up SW

RWY 03: Road. RWY 21: Road.

**AIRPORT REMARKS:** Unattended. Fuel 24hr self svc credit card fuel avbl.

Deer on and invof arpt. Rwy 03-21 CLOSED winter months due to lack of snow removal. Rwy 03 rwy end corner and side daylight cone markers only. Rwy 21 +25' trees 180' from thld; 100' left of extended centerline; apch ratio 7:1. Rotating bcn OTS indef. PAPI Rwy 12 and Rwy 30 ops dusk-0700Z. MIRL Rwy 12-30 preset on low ints dusk-0700Z, to increase ints ACTIVATE—CTAF. After 0700Z ACTIVATE MIRL Rwy 12-30 and PAPI Rwy 12 and Rwy 30—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.025 (701) 965-6732.**COMMUNICATIONS:** CTAF 122.9**SALT LAKE CITY CENTER APP/DEP CON** 126.85**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISN.**WILLISTON (L) VORTACW** 116.3 ISN Chan 110 N48°15.21'W103°45.04' 012° 44.4 NM to fld. 2372/12E. **HIWAS.****DEERING** N48°24.92' W101°21.97' NOTAM FILE GFK.

BILLINGS

H-2G, L-14F

(H) **TACAN** Chan 96 MIB (114.9) at Minot AFB. 1668/10E. No NOTAM MP Wed 1530-1730Z† (1500/3+1).

**DEVILS LAKE RGNL** (DVL) 2 W UTC-6(-5DT) N48°06.88' W98°54.50'

TWIN CITIES

H-2H, L-14G

IAP

1456 B S4 FUEL 100LL, JET A Class I, ARFF Index A NOTAM FILE DVL

RWY 13-31: H5506X100 (ASPH-PFC) S-75, D-130, 2S-175, 2D-190, C5-647 HIRL

RWY 13: REIL. VASI(V4L)—GA 3.0° TCH 52'. Road.

RWY 31: MALSR. VASI(V4L)—GA 3.0° TCH 42'. Thld dsplcd 640'. Road.

RWY 03-21: H5039X75 (ASPH-PFC) S-30 MIRL

RWY 03: REIL. PAPI(P2L)—GA 3.0° TCH 25'. Thld dsplcd 183'. Tree.

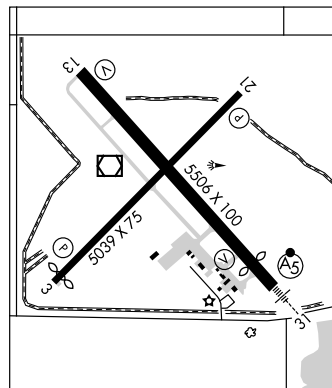
RWY 21: REIL. PAPI(P2L)—GA 3.0° TCH 25'. Tree.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 03: TORA-5039 TODA-5039 ASDA-5039 LDA-4856

RWY 21: TORA-5039 TODA-5039 ASDA-5039 LDA-5039

**AIRPORT REMARKS:** Attended 1300-0000Z. For attendant other hrs call 701-662-3221/2827. After dark call 662-3550. Jet A fuel avbl; call 701-662-3221, irregular hrs. Numerous waterfowl and other birds, deer and jack rabbits on and invof arpt. Scheduled air carrier ops involving acft with more than 9 passengers are not authorized in excess of 15 minutes before or after scheduled arr/dep times without prior coordination with arpt manager to ensure that ARFF is avbl. 48 hrs PPR for unscheduled air carrier ops with more than 30 passengers call arpt manager 701-662-5833. Rwy 03-21 CLOSED to air carrier acft with more than 9 passenger seats. HIRL Rwy 13-31 preset low ints dusk-dawn, to increase ints and ACTIVATE MIRL Rwy 03-21, REIL Rwy 03 and Rwy 21—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 125.875 (701) 662-7214. **HIWAS** 111.0 DVL.**COMMUNICATIONS:** CTAF/UNICOM 122.8**RCO** 122.3 (GRAND FORKS RADIO)**AIRSPACE:** CLASS E svc Mon-Fri 1000-0330Z, Sat 1000-2100Z, Sun 1930-0330Z other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE DVL.(L) **VORW/DME** 111.0 DVL Chan 47 N48°06.91' W98°54.75' at fld. 1448/7E.**VIKOR NDB (LOM)** 332 VK N48°02.13' W98°48.23' 311° 6.3 NM to fld.**ILS** 108.7 I-VKE Rwy 31. LOM **VIKOR NDB.** ILS unmonitored.



APP CRS  
**304°**Rwy Idg **3800**  
TDZE **1948**  
Apt Elev **1950****RNAV (GPS) RWY 30**

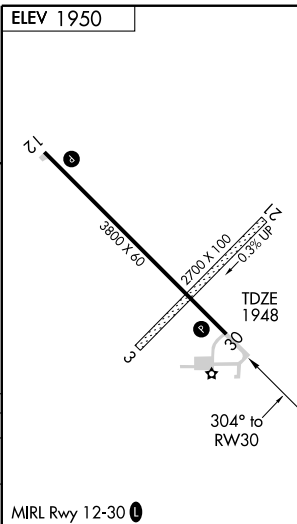
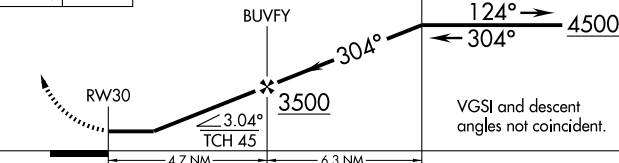
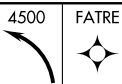
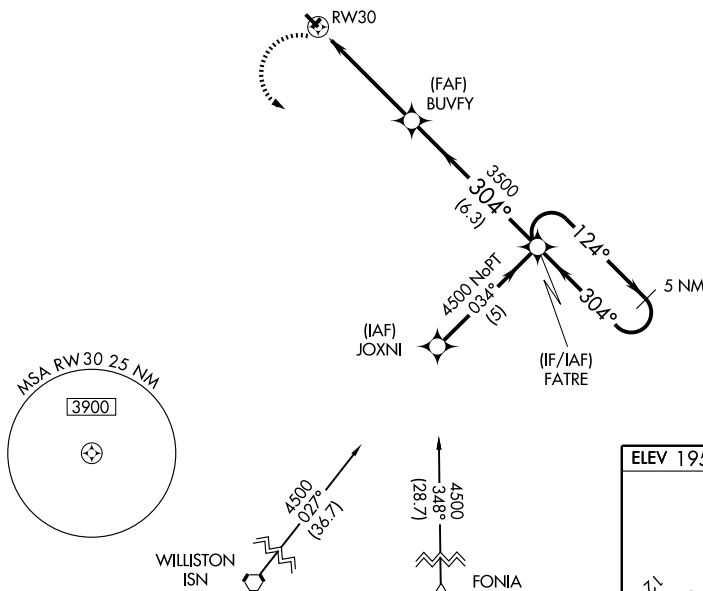
CROSBY MUNI (D50)



NA

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Williston altimeter setting and increase all MDA 120 feet and increase LNAV Cat C and D visibility ¼ mile; circling Cat C and D visibility ¼ mile.

MISSED APPROACH:  
Climbing left turn to 4500  
direct FATRE and hold.

AWOS-3  
**118.025**SALT LAKE CITY CENTER  
**126.85 305.2**CTAF  
**122.9 0**CANADA  
UNITED STATES

CATEGORY	A	B	C	D
LNAV MDA	2560-1 612 (700-1)	2560-1 612 (700-1)	2560-1 612 (700-1)	2560-2 612 (700-2)
CIRCLING	2560-1 610 (700-1)	2560-1 610 (700-1)	2560-1 610 (700-1)	2560-2 610 (700-2)

MIRL Rwy 12-30 0

**CROSBY MUNI** (D5Ø) 1 N UTC-6(-5DT) N48°55.71' W103°17.84'

BILLINGS

1950 B FUEL 100 NOTAM FILE GFK

L-13E, 14F

RWY 12-30: H3800X60 (ASPH) S-12.5 MIRL

IAP

RWY 12: PAPI (P2L)—GA 3.0° TCH 22'. P-line.

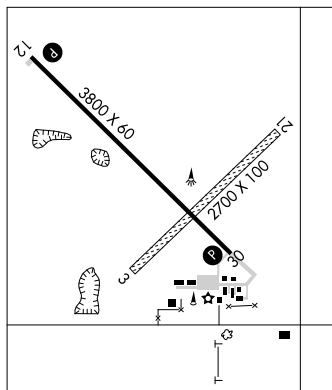
RWY 30: PAPI (P2L)—GA 3.0° TCH 23'. Road.

RWY 03-21: 2700X100 (TURF) 0.3% up SW

RWY 03: Road. RWY 21: Road.

**AIRPORT REMARKS:** Unattended. Fuel 24hr self svc credit card fuel avbl.

Deer on and invof arpt. Rwy 03-21 CLOSED winter months due to lack of snow removal. Rwy 03 rwy end corner and side daylight cone markers only. Rwy 21 +25' trees 180' from thld; 100' left of extended centerline; apch ratio 7:1. Rotating bcn OTS indef. PAPI Rwy 12 and Rwy 30 ops dusk-0700Z. MIRL Rwy 12-30 preset on low ints dusk-0700Z, to increase ints ACTIVATE—CTAF. After 0700Z ACTIVATE MIRL Rwy 12-30 and PAPI Rwy 12 and Rwy 30—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.025 (701) 965-6732.**COMMUNICATIONS:** CTAF 122.9**SALT LAKE CITY CENTER APP/DEP CON** 126.85**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISN.**WILLISTON (L) VORTACW** 116.3 ISN Chan 110 N48°15.21'W103°45.04' 012° 44.4 NM to fld. 2372/12E. **HIWAS.****DEERING** N48°24.92' W101°21.97' NOTAM FILE GFK.

BILLINGS

(H) **TACAN** Chan 96 MIB (114.9) at Minot AFB. 1668/10E. No NOTAM MP Wed 1530-1730Z† (1500/3+1).

H-2G, L-14F

**DEVILS LAKE RGNL** (DVL) 2 W UTC-6(-5DT) N48°06.88' W98°54.50'

TWIN CITIES

1456 B S4 FUEL 100LL, JET A Class I, ARFF Index A NOTAM FILE DVL

H-2H, L-14G

RWY 13-31: H5506X100 (ASPH-PFC) S-75, D-130, 2S-175, 2D-190, C5-647 HIRL

IAP

RWY 13: REIL. VASI(V4L)—GA 3.0° TCH 52'. Road.

RWY 31: MALSR. VASI(V4L)—GA 3.0° TCH 42'. Thld dsplcd 640'. Road.

RWY 03-21: H5039X75 (ASPH-PFC) S-30 MIRL

RWY 03: REIL. PAPI(P2L)—GA 3.0° TCH 25'. Thld dsplcd 183'. Tree.

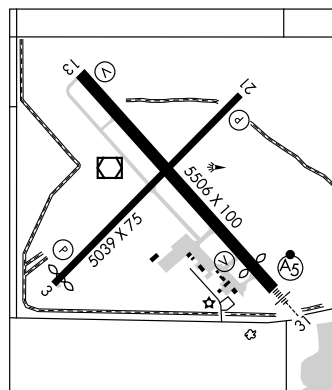
RWY 21: REIL. PAPI(P2L)—GA 3.0° TCH 25'. Tree.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 03: TORA-5039 TODA-5039 ASDA-5039 LDA-4856

RWY 21: TORA-5039 TODA-5039 ASDA-5039 LDA-5039

**AIRPORT REMARKS:** Attended 1300-0000Z. For attendant other hrs call 701-662-3221/2827. After dark call 662-3550. Jet A fuel avbl; call 701-662-3221, irregular hrs. Numerous waterfowl and other birds, deer and jack rabbits on and invof arpt. Scheduled air carrier ops involving acft with more than 9 passengers are not authorized in excess of 15 minutes before or after scheduled arr/dep times without prior coordination with arpt manager to ensure that ARFF is avbl. 48 hrs PPR for unscheduled air carrier ops with more than 30 passengers call arpt manager 701-662-5833. Rwy 03-21 CLOSED to air carrier acft with more than 9 passenger seats. HIRL Rwy 13-31 preset low ints dusk-dawn, to increase ints and ACTIVATE MIRL Rwy 03-21, REIL Rwy 03 and Rwy 21—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 125.875 (701) 662-7214. **HIWAS** 111.0 DVL.**COMMUNICATIONS:** CTAF/UNICOM 122.8**RCO** 122.3 (GRAND FORKS RADIO)**AIRSPACE:** CLASS E svc Mon-Fri 1000-0330Z, Sat 1000-2100Z, Sun 1930-0330Z other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE DVL.(L) **VORW/DME** 111.0 DVL Chan 47 N48°06.91' W98°54.75' at fld. 1448/7E.**VIKOR NDB (LOM)** 332 VK N48°02.13' W98°48.23' 311° 6.3 NM to fld.**ILS** 108.7 I-VKE Rwy 31. LOM **VIKOR NDB.** ILS unmonitored.

LOC I-VKE	APP CRS	Rwy Idg	<b>4866</b>
<b><u>108.7</u></b>	<b>311°</b>	TDZE	<b>1448</b>
		Apt Elev	<b>1455</b>

ILS or LOC RWY 31  
DEVILS LAKE RGNL (DVL)

**T** Inoperative table does not apply to S-ILS 31.  
**A** NA For inoperative MALSR increase S-LOC 31 Cat A, B, C visibility to 1 mile.

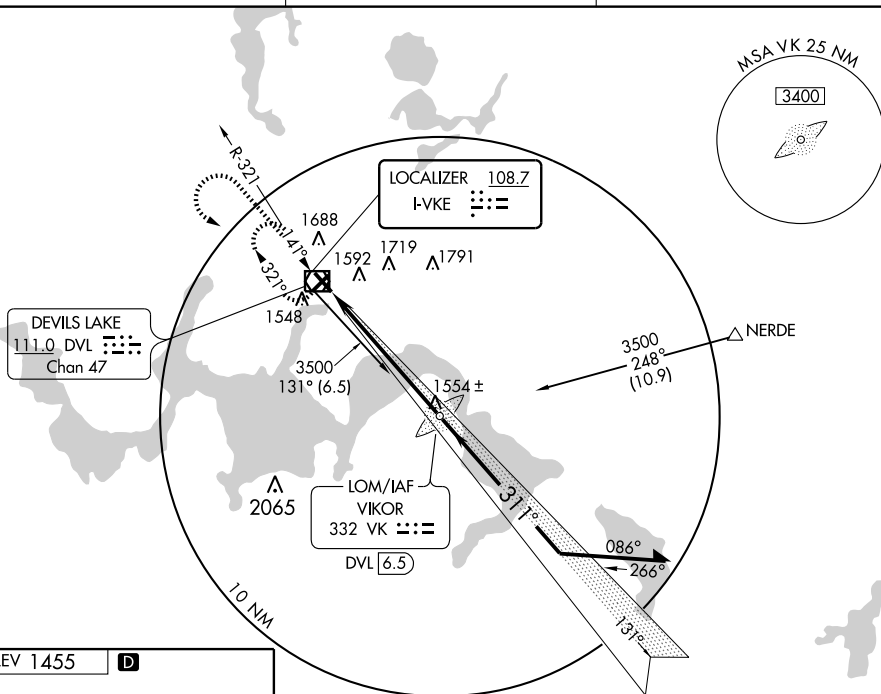
MALSR

**MISSED APPROACH:** Climb to 3500 then left turn direct DVL VOR/DME and hold.

AWOS-3  
125.875

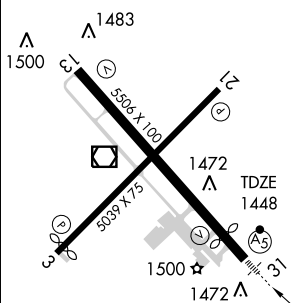
GRAND FORKS RADIO  
122.3

UNICOM  
122.8 (CTAF) **L**



ELEV 1455

**D**

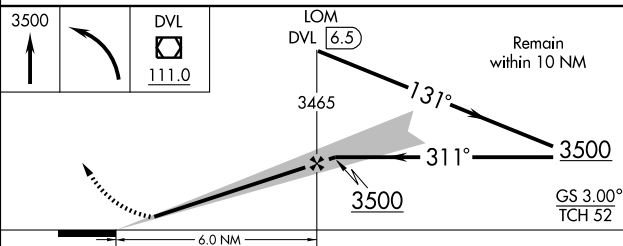


HIRL Rwy 13-31 **L**  
REIL Rwy 13  
REIL Rwys 3 and 2  
MIRL Rwy 3-21 **L**

FAF to MAP 6 NM

Knots	60	90	120	150	180
Min:Sec	6:00	4:00	3:00	2:24	2:00

DME OR ADF REQUIRED



CATEGORY	A	B	C	D
S-ILS 31	1698- $\frac{3}{4}$ 250 (300- $\frac{3}{4}$ )			
S-LOC 31	1800- $\frac{3}{4}$ 352 (400- $\frac{3}{4}$ )			
CIRCLING	2000-1 545 (600-1)		2000-1 $\frac{1}{2}$ 545 (600-1 $\frac{1}{2}$ )	2080-2 625 (700-2)

DEVILS LAKE, NORTH DAKOTA

Amdt 1A 09351

DEVILS LAKE RGNL(DVL)

ILS or LOC RWY 31

48°07'N - 98°54'W

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1. 26 AUG 2010 to 23 SEP 2010

WAAS CH <b>93608</b> <b>W03A</b>	APP CRS <b>038°</b>	Rwy Idg TDZE <b>1450</b> Apt Elev <b>1455</b>	<b>4856</b> <b>1450</b> <b>1455</b>
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# RNAV (GPS) RWY 3

DEVILS LAKE RGNL (DVL)

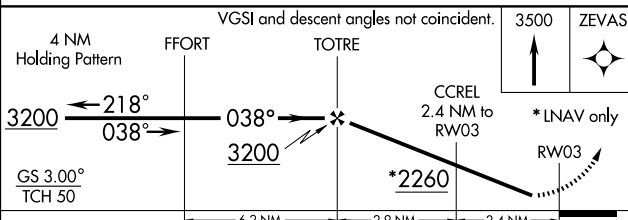
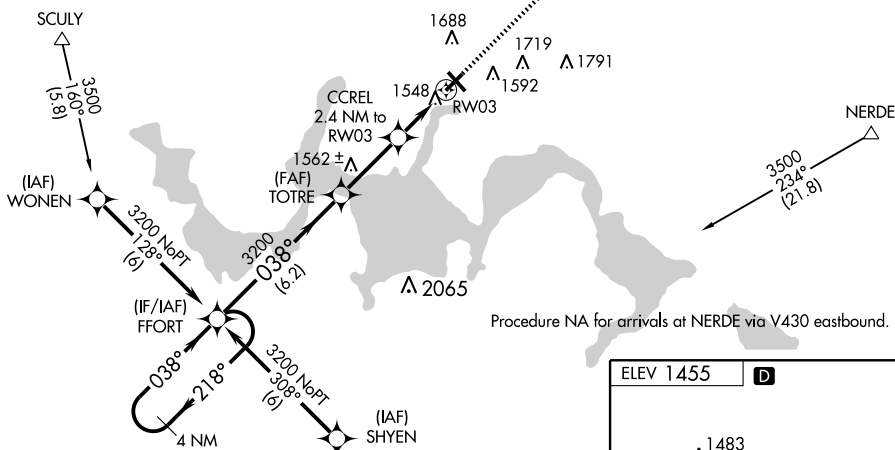
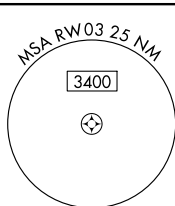
▼ Baro-VNAV NA when using Jamestown altimeter setting.  
 ▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F).  
 DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.  
 When local altimeter setting not received, use Jamestown altimeter setting and increase all DA 173 feet, and all MDA 180 feet, increase LPV and LNAV/VNAV all Cats visibility ¾ mile, LNAV and Circling Cats C and D visibility ½ mile.

MISSED APPROACH: Climb to 3500 direct ZEVAS and hold.

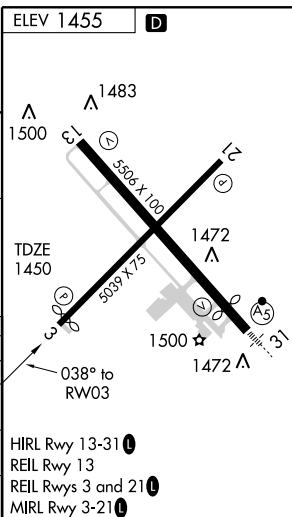
AWOS-3  
**125.875**

GRAND FORKS RADIO  
**122.3**

UNICOM  
**122.8 (CTAF) ①**



CATEGORY	A	B	C	D
LPV DA	1775-1 325 (400-1)			
LNAV/VNAV DA	1821-1¼ 371 (400-1¼)			
LNAV MDA	1800-1 350 (400-1)			1800-1¼ 350 (400-1¼)
CIRCLING	2000-1 545 (600-1)		2000-1½ 545 (600-1½)	2080-2 625 (700-2)



WAAS CH <b>78314</b> <b>W13A</b>	APP CRS <b>131°</b>	Rwy Idg <b>5506</b> TDZE <b>1456</b> Apt Elev <b>1456</b>
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# RNAV (GPS) RWY 13

DEVILS LAKE RGNL (DVL)

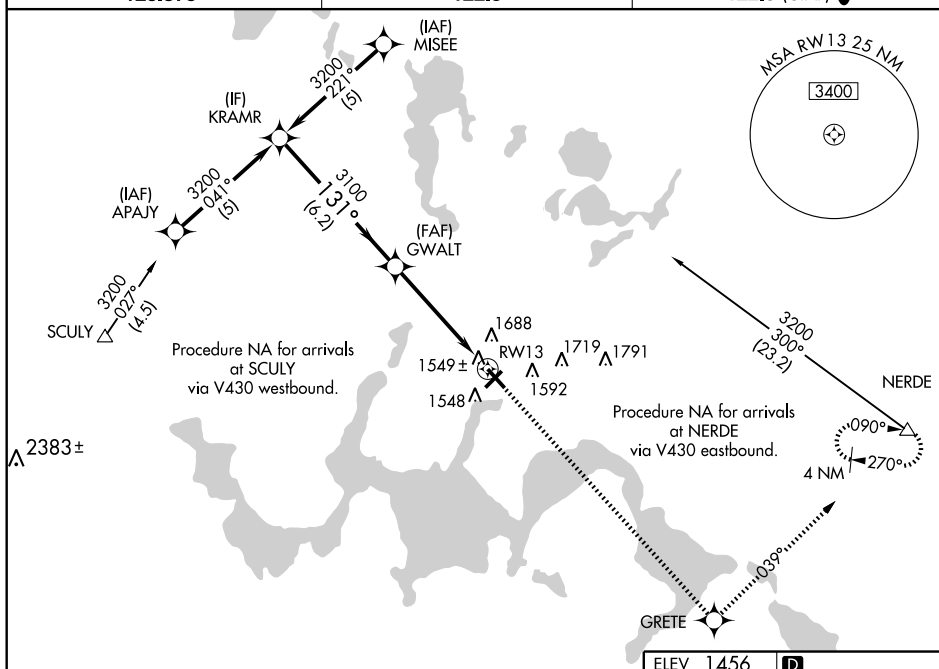
▼ Baro-VNAV NA when using Jamestown altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Jamestown altimeter setting and increase all DA 172 feet, and all MDA 180 feet, increase LPV all Cats visibility ¾ mile, LNAV/VNAV all Cats ½ mile, LNAV Cat C ¼ mile, Cat D ½ mile, Circling Cats C and D ½ mile. VDP NA with Jamestown altimeter setting.

**MISSED APPROACH:**  
Climb to 3300 direct GRETE and left turn on track 039° to NERDE and hold.

AWOS-3  
**125.875**

GRAND FORKS RADIO  
**122.3**

UNICOM  
**122.8 (CTAF) 0**



KRAMR		GRETE		NERDE	
3200		3300		1456	
Procedure Turn NA		GRETE		NERDE	
GS 3.00° TCH 52		* 1.1 NM to RW13		* 1.1 NM to RW13	
6.2 NM		3.8 NM		1.1	
CATEGORY	A	B	C	D	
LPV DA	1768-1		312 (400-1)		
LNAV/VNAV DA	1956-1¾		500 (500-1¾)		
LNAV MDA	1860-1 404 (500-1)		1860-1¼ 404 (500-1¼)		
CIRCLING	2000-1 544 (600-1)		2000-1½ 544 (600-1½)		
HIRL Rwy 13-31 0		REIL Rwy 13		MIRL Rwy 3-21 0	
REIL Rwy 3 and 21 0		MIRL Rwy 3-21 0			

WAAS CH <b>78417</b> <b>W21A</b>	APP CRS <b>218°</b>	Rwy Idg TDZE Apt Elev	<b>5039</b> <b>1449</b> <b>1456</b>
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# RNAV (GPS) RWY 21

DEVILS LAKE RGNL (DVL)

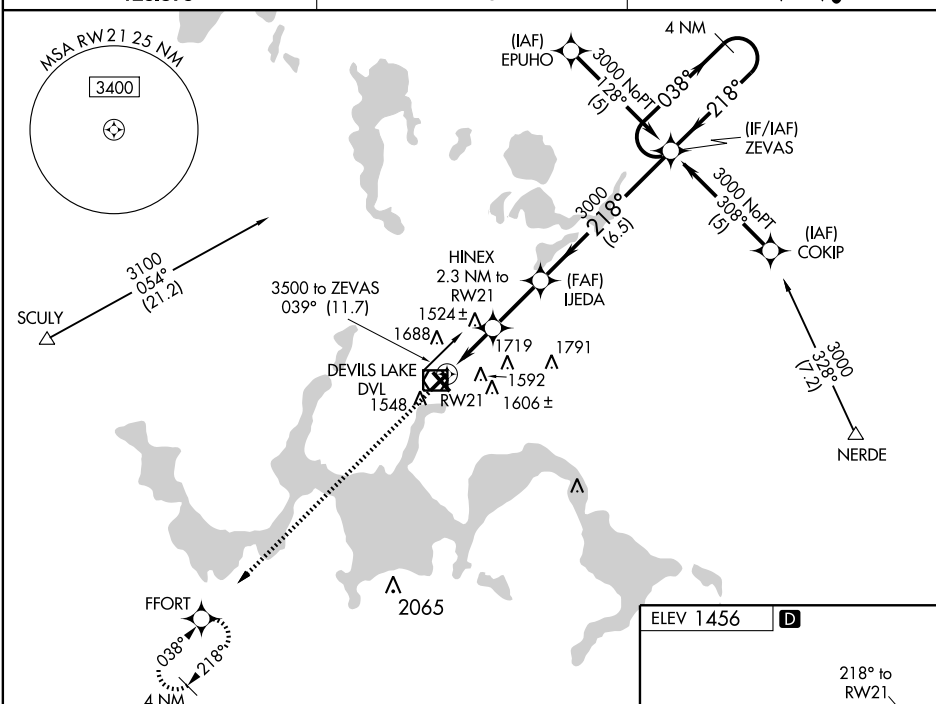
**▼** For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 45°C (113°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Baro-VNAV NA when using Jamestown altimeter setting. VDP NA with Jamestown altimeter setting. When local altimeter setting not received, use Jamestown altimeter setting and increase all DA 172 feet, and all MDA 180 feet, increase LPV all Cats visibility ½ mile, LNAV/VNAV all Cats visibility ¾ mile, LNAV and Circling Cats C and D visibility ½ mile.

**MISSED APPROACH:** Climb to 3200 direct FORT and hold.

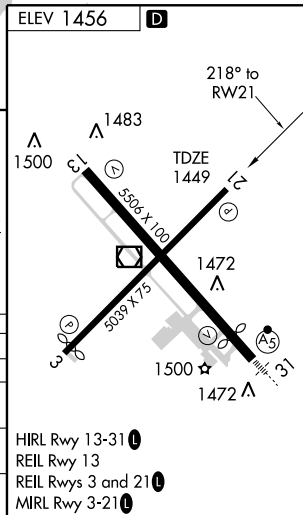
AWOS-3  
**125.875**

GRAND FORKS RADIO  
**122.3**

UNICOM  
**122.8 (CTAF) ①**



3200	FFORT	VGSI and RNAV glidepath not coincident.			
HINEX 2.3 NM to RWY 21	IUEDA 3000	ZEVAS 3000	4 NM Holding Pattern		
*1.1 NM to RWY 21	*2220	*218°	038°	3000	GS 3.00° TCH 50
1.1	1.2 NM	2.4 NM	6.5 NM		
CATEGORY	A	B	C	D	
LPV DA	1699-1		250 (300-1)		
LNAV/VNAV DA	1944-1¾		495 (500-1¾)		
LNAV MDA	1800-1		351 (400-1)		1800-1¼ 351 (400-1¼)
CIRCLING	2000-1		544 (600-1)		2000-1½ 544 (600-1½)
					2080-2 624 (700-2)



WAAS CH <b>5831A</b> <b>W31A</b>	APP CRS <b>311°</b>	Rwy Idg <b>4866</b> TDZE <b>1449</b> Apt Elev <b>1456</b>
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# RNAV (GPS) RWY 31

## DEVILS LAKE RGNL (DVL)

**T** For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. For inoperative MALS, increase visibility LNAV Cat D 1 1/4 mile. When local altimeter setting not received, use Jamestown altimeter setting and increase all DA 172 feet, all MDA 180 feet, increase LPV all Cats visibility 1/2 mile, LNAV/VNAV all Cats 3/4 mile, LNAV Cat C 1/2 mile, Cat D 1/4 mile, circling Cats C and D 1/2 mile. Baro-VNAV and VDP NA when using Jamestown altimeter setting. For inoperative MALS, when using Jamestown altimeter setting, increase LPV all Cats visibility to 1 1/2 mile.

MALS

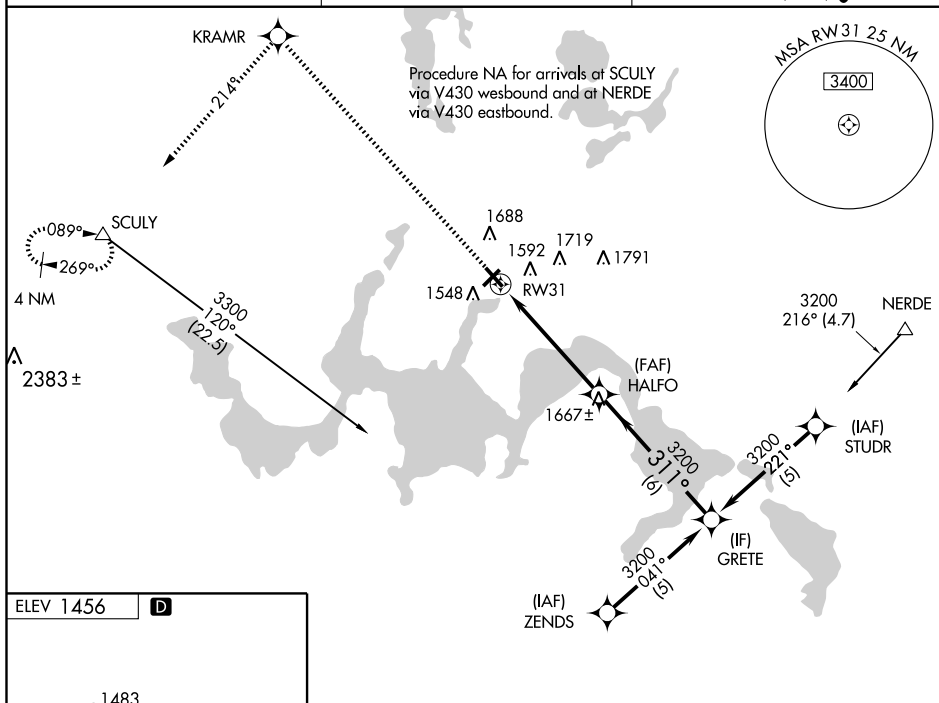


**MISSED APPROACH:**  
Climb to 3600 direct KRAMR and left turn via Track 214° to SCULY and hold.

AWOS-3  
**125.875**

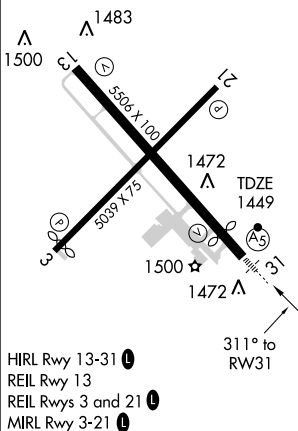
GRAND FORKS RADIO  
**122.3**

UNICOM  
**122.8 (CTAF) 0**



ELEV 1456

D



3600	KRAMR	SCULY	HALFO	GRETE
↑	TRK 214°	△	311°	3200
	*1 NM to RW31		3200	Procedure Turn NA
	*LNAV only.		VGSI and RNAV glidepath not coincident.	GS 3.00° TCH 52
	1 NM	4.3 NM	6 NM	
CATEGORY	A	B	C	D
LPV DA	1699-1/2	250 (300-1/2)		
LNAV/VNAV DA	1907-1	458 (500-1)		
LNAV MDA	1800-1/2	351 (400-1/2)		1800-1 351 (400-1)
CIRCLING	2000-1	544 (600-1)	2000-1 1/2 544 (600-1 1/2)	2080-2 624 (700-2)

VOR/DME DVL <b>111.0</b> Chan <b>47</b>	APP CRS <b>030°</b>	Rwy Idg TDZE <b>1450</b> Apt Elev <b>1455</b>
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# VOR RWY 3

DEVILS LAKE RGNL (DVL)

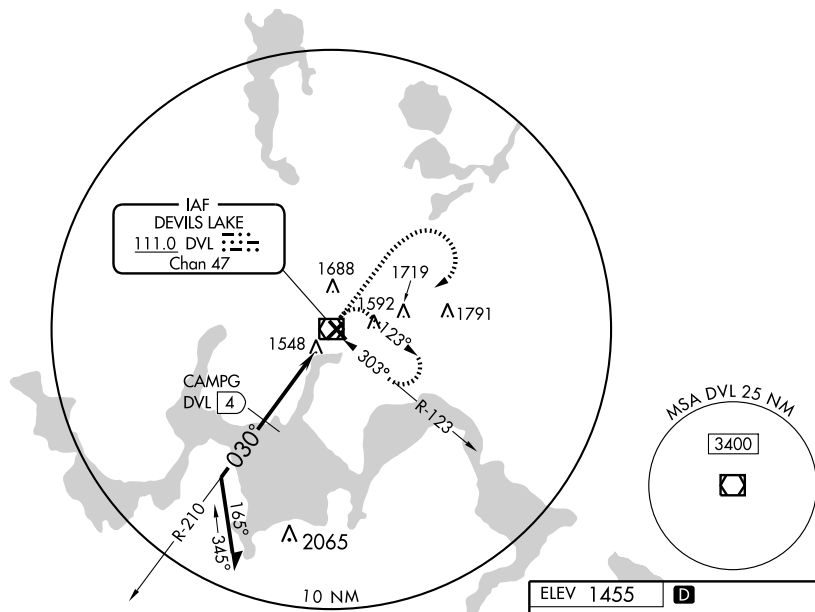
**▼** Visibility reduction by helicopters NA.  
**▲** When local altimeter setting not received, use Jamestown altimeter setting and increase all MDA 180 feet, increase S-3 and Circling visibility Cat. A/B and D ¼ mile, Cat. C ½ mile, increase CAMPG FIX MINIMUMS S-3 and Circling Cat. C and D visibility ½ mile.

MISSED APPROACH: Climb to 3000 then climbing right turn to 3500 direct DVL VOR/DME and hold.

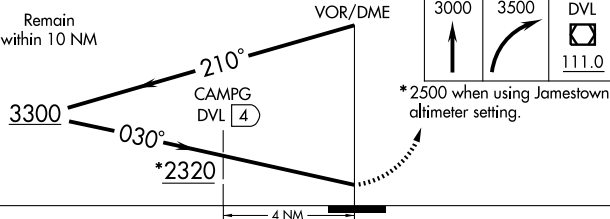
AWOS-3  
**125.875**

GRAND FORKS RADIO  
**122.3**

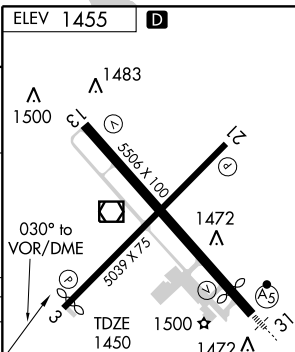
UNICOM  
**122.8 (CTAF) ①**



Remain  
within 10 NM



CATEGORY	A	B	C	D
S-3	2320-1 870 (900-1)	2320-1¼ 870 (900-1¼)	2320-2½ 870 (900-2½)	2320-2¾ 870 (900-2¾)
CIRCLING	2320-1 865 (900-1)	2320-1¼ 865 (900-1¼)	2320-2½ 865 (900-2½)	2320-2¾ 865 (900-2¾)
CAMPG FIX MINIMUMS				
S-3	1800-1 350 (400-1)			1800-1¼ 350 (400-1¼)
CIRCLING	2000-1 545 (600-1)		2000-1½ 545 (600-1½)	2080-2 625 (700-2)



HIRL Rwy 13-31 ①  
 REIL Rwy 13  
 REIL Rws 3 and 21 ①  
 MRL Rwy 3-21 ①



VOR/DME DVL <b>111.0</b> Chan <b>47</b>	APP CRS <b>141°</b>	Rwy Idg TDZE Apt Elev <b>1455</b>
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# VOR RWY 13

DEVILS LAKE RGNL(DVL)

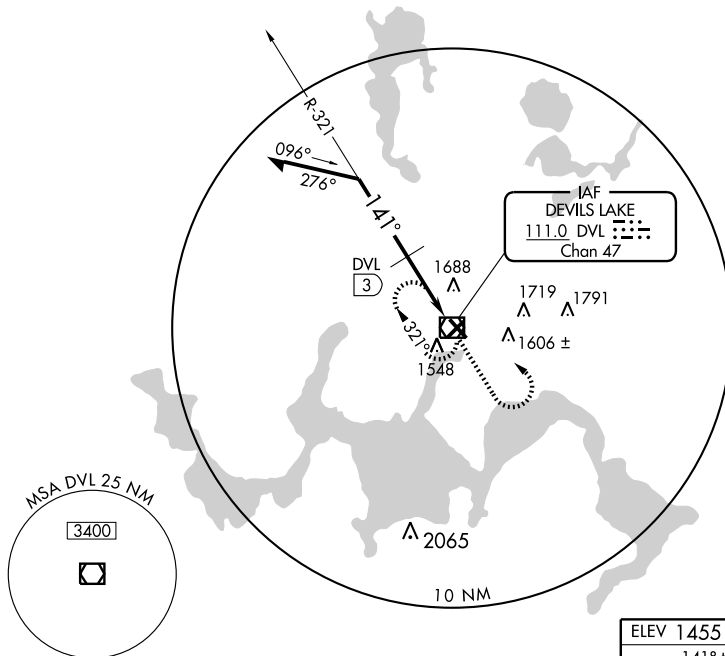
**V** Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 3000 then left turn direct DVL VOR/DME and hold.

AWOS-3  
**125.875**

GRAND FORKS RADIO  
**122.3**

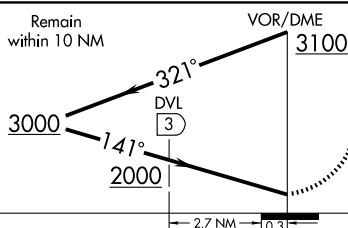
UNICOM  
**122.8 (CTAF) 0**



MSA DVL 25 NM

3400

Remain  
within 10 NM



3000

DVL

ELEV 1455

141° to  
VOR/DME

1500

TDZE  
1455

1483

5306 x 100

5039 x 75

1472

1500

1472

CATEGORY	A	B	C	D
S-13	2000-1 545 (600-1)		2000-1½ 545 (600-1½)	2000-1¾ 545 (600-1¾)
CIRCLING	2000-1 545 (600-1)		2000-1½ 545 (600-1½)	2080-2 625 (700-2)
DME MINIMUMS				
S-13	1940-1 485 (500-1)		1940-1¼ 485 (500-1¼)	1940-1½ 485 (500-1½)
CIRCLING	2000-1 545 (600-1)		2000-1½ 545 (600-1½)	2080-2 625 (700-2)

HIRL Rwy 13-31 0

REIL Rwy 13

REIL Rws 3 and 21 0

MIRL Rwy 3-21 0

VOR/DME DVL <b><u>111.0</u></b> Chan <b>47</b>	APP CRS <b>225°</b>	Rwy Idg <b>5039</b> TDZE <b>1449</b> Apt Elev <b>1455</b>
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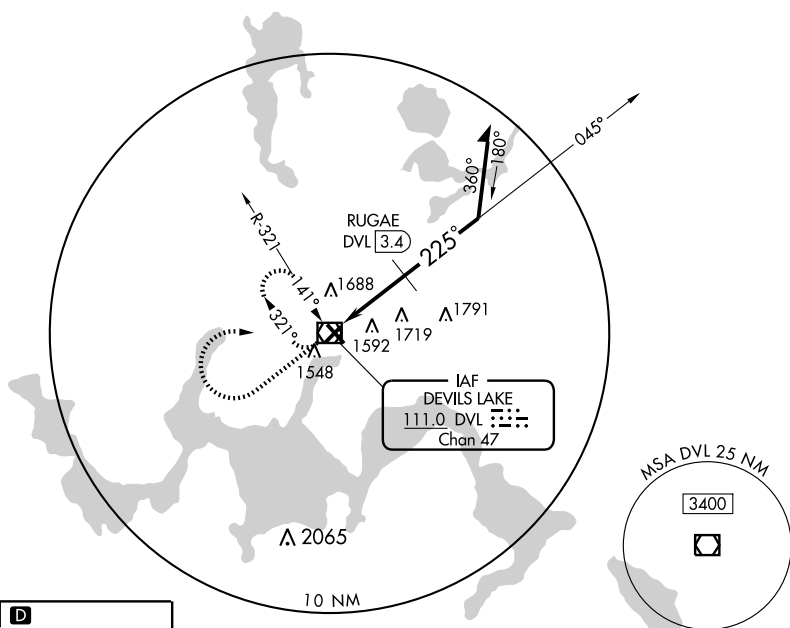
VOR RWY 21  
DEVILS LAKE RGNL (DVL)

**T** When local altimeter setting not received, use Jamestown altimeter setting  
**A** and increase all MDA 180 feet, increase S-21 and Circling visibility  
Cat. A ¼ mile, Cat. C and D ½ mile, increase RUGAE FIX MINIMUMS  
S-21 and Circling visibility Cat. B to 1¼, Cat. C to 2¼ and Cat. D to 2½.  
VDP NA when using Jamestown altimeter setting.

**MISSED APPROACH:** Climb to 3000 then climbing right turn to 3500 direct DVL VOR/DME and hold.

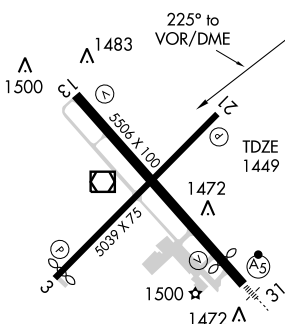
AWOS-3  
125.875


GRAND FORKS RADIO  
122.3

UNICOM  
122.8 (CTAF) **L**

ELEV 1455

**D**

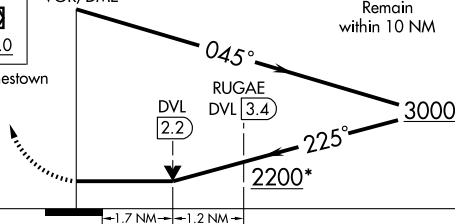


3000 ↑	3500 ↗	DVL  <u>111.0</u>
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\* 2380 when using Jamestown altimeter setting.

VOR/DME

Remain  
within 10 NM



CATEGORY	A	B	C	D
S-21	2200-1 751 (800-1)	2200-1¼ 751 (800-1¼)	2200-2¼ 751 (800-2¼)	2200-2½ 751 (800-2½)
CIRCLING	2200-1 745 (800-1)	2200-1¼ 745 (800-1¼)	2200-2¼ 745 (800-2¼)	2200-2½ 745 (800-2½)
RUGAE FIX MINIMUMS				
S-21	2020-1 571 (600-1)	2020-1½ 571 (600-1½)	2020-1¾ 571 (600-1¾)	
CIRCLING	2020-1 565 (600-1)	2020-1½ 565 (600-1½)	2080-2 625 (700-2)	

DEVILS LAKE, NORTH DAKOTA  
Orig 09295

48°07'N-98°54'W

DEVILS LAKE RGNL (DVL)  
VOR RWY 21

NC-1. 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

VOR/DME DVL <b>111.0</b> Chan <b>47</b>	APP CRS <b>303°</b>	Rwy Idg TDZE <b>1448</b> Apt Elev <b>1455</b>
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# VOR RWY 31

DEVILS LAKE RGNL(DVL)



S-31 Cats A and B visibility increased ¼ mile for inoperative MALSR.

MALSR

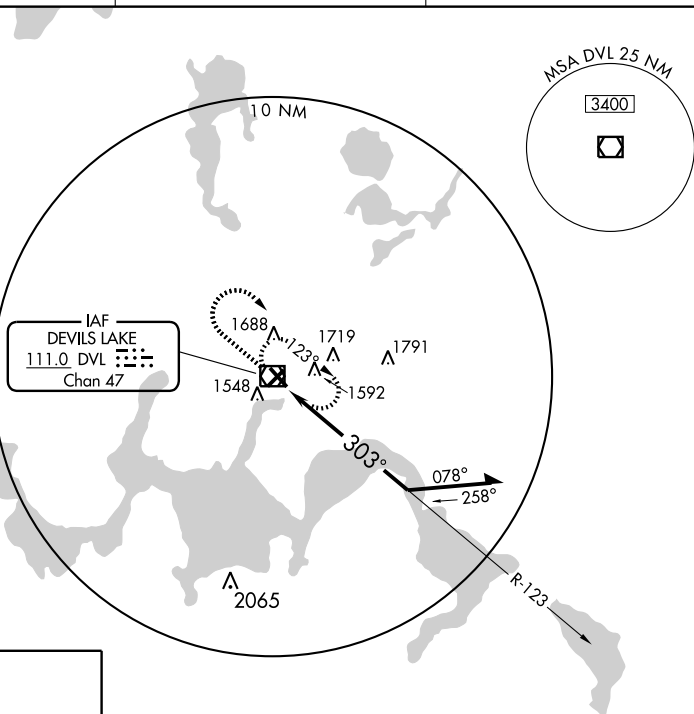


MISSED APPROACH: Climb to 3000 then right turn direct DVL VOR/DME and hold.

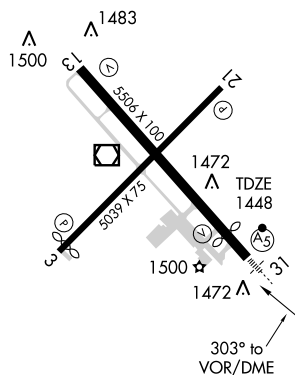
AWOS-3  
**125.875**

GRAND FORKS RADIO  
**122.3**

UNICOM  
**122.8 (CTAF)**



ELEV 1455



3000



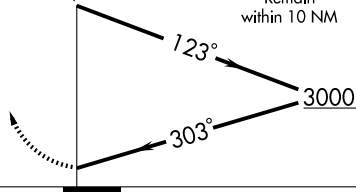
DVL



111.0

VOR/DME

Remain  
within 10 NM



HIRL Rwy 13-31  
REIL Rwy 13  
REIL Rwy 3 and 21  
MIRL Rwy 3-21

CATEGORY	A	B	C	D
S-31	1920-¾ 472 (500-¾)			1920-1 472 (500-1)
CIRCUING	2000-1 545 (600-1)		2000-1½ 545 (600-1½)	2080-2 625 (700-2)

DEVILS LAKE, NORTH DAKOTA

Orig-A 09351

48°07'N - 98°54'W

DEVILS LAKE RGNL(DVL)

# VOR RWY 31

**DICKINSON—THEODORE ROOSEVELT RGNL** (DIK) 5 S UTC-7(-6DT) N46°47.84' W102°48.11' **BILLINGS**

2592 B S4 FUEL 100LL, JET A TPA—See Remarks Class III, ARFF Index A

H-26, L-14F

NOTAM FILE DIK

**RWY 14-32:** H6399X100 (ASPH-GRVD) S-30, D-37.5 MIRL**RWY 14:** REIL. VASI(V4L)—GA 3.0° TCH 40'. Road.**RWY 32:** MALSR. VASI(V4L)—GA 3.0° TCH 40'.**RWY 07-25:** H4699X75 (ASPH-GRVD) S-16, D-20 MIRL

0.4% up E

**RWY 07:** REIL. PAPI(P2L)—GA 3.0° TCH 25'.**RWY 25:** REIL. PAPI(P2L)—GA 3.0° TCH 25'. Road.**RUNWAY DECLARED DISTANCE INFORMATION****RWY 07:** TORA-4700 TODA-4700 ASDA-4700 LDA-4700**RWY 14:** TORA-6400 TODA-6400 ASDA-6400 LDA-6400**RWY 25:** TORA-4700 TODA-4700 ASDA-4700 LDA-4700**RWY 32:** TORA-6400 TODA-6400 ASDA-6400 LDA-6400**AIRPORT REMARKS:** Attended 1500-0000Z†. For svc after hrs call

701-483-5824/260-4221. Birds on and in/of arpt. Haying

operations adjacent to all surfaces Jun-Sep. Crop dusting

operations in/of arpt. PAEW on movement areas during winter

(Oct-Apr). TPA—single engine 3602 (1010); multiengine 4102

(1510). Conc apron for heavy acft parking. MIRL Rwy 07-25 and

14-32 preset on low ints dusk-0500Z†; to increase ints after

0500Z† and ACTIVATE PAPI Rwy 07 and 25 and VASI Rwy 14 and Rwy 32, REIL Rwy 14, Rwy 07 and 25 and

MALSR Rwy 32—CTAF.

**WEATHER DATA SOURCES:** ASOS 118.375 (701) 227-0280.

HIWAS 112.9 DIK.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

RCO 122.2 (GRAND FORKS RADIO)

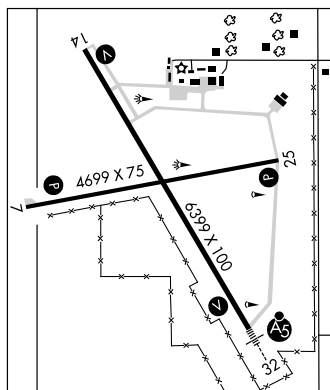
MINNEAPOLIS CENTER APP/DEP CON 124.25

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DIK.

(H) VORTACW 112.9 DIK Chan 76 N46°51.60' W102°46.41' 183° 3.9 NM to fld. 2527/14E. HIWAS.

NOSON NDB (LOM) 353 DI N46°41.30' W102°42.75' 320° 7.5 NM to fld. Unmonitored.

ILS 108.3 I-DIK Rwy 32. LOM NOSON NDB. Middle marker and outer marker unmonitored. Glide slope unusable byd 4° left of localizer course.

**DRAYTON MUNI** (D29) 3 N UTC-6(-5DT) N48°37.11' W97°10.62'

TWIN CITIES

798 B NOTAM FILE GFK

**RWY 17-35:** H2600X60 (ASPH-AFSC) S-4 LIRL**RWY 35:** Thld dsplcd 320'.**AIRPORT REMARKS:** Unattended. For svc call 701-454-6588. Snow removal irregular. Confirm winter conditions before use, call 701-454-3590. Rwy 35 dsplcd thld ngt ops only. Rwy 17-35 sfc uneven and rutted. Rotating bcn OTS indef. LIRL Rwy 17-35 opr dusk-0600Z†, after 0600Z†, ACTIVATE LIRL Rwy 17-35 CTAF.**COMMUNICATIONS:** CTAF 122.9**DUNSEITH****INLT PEACE GARDEN** (S28) 11 N UTC-6(-5DT) N48°59.87' W100°02.61'

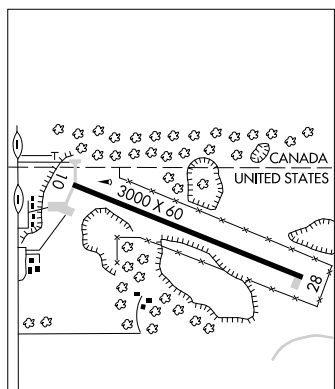
TWIN CITIES

2314 LRA NOTAM FILE GFK

**RWY 10-28:** H3000X60 (ASPH-AFSC) S-12.5**RWY 10:** Tower. **RWY 28:** Trees.**AIRPORT REMARKS:** Unattended. Deer on and in vicinity of arpt. Rwy 10 has -20' dropoff 400' from thld. Rwy 10 +46' twr 858' from thld 221' left. Snow plowed irregularly, confirm winter conditions prior to use 701-328-9650 Mon-Fri 1400-2300Z†. Custom station hours Sep 16-May 14 1400-0600Z† with 24 hour svc avbl remainder of year.**COMMUNICATIONS:** CTAF/UNICOM 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE MOT.

MINOT (H) VORTACW 117.1 MOT Chan 118 N48°15.62'

W101°17.22' 035° 66.4 NM to fld. 1691/13E. HIWAS.



## ILS or LOC RWY 32

DICKINSON-THEODORE ROOSEVELT RGNL (DIK)

LOC I-DIK <b><u>108.3</u></b>	APP CRS <b>320°</b>	Rwy Idg <b>6399</b> TDZE <b>2591</b> Apt Elev <b>2592</b>
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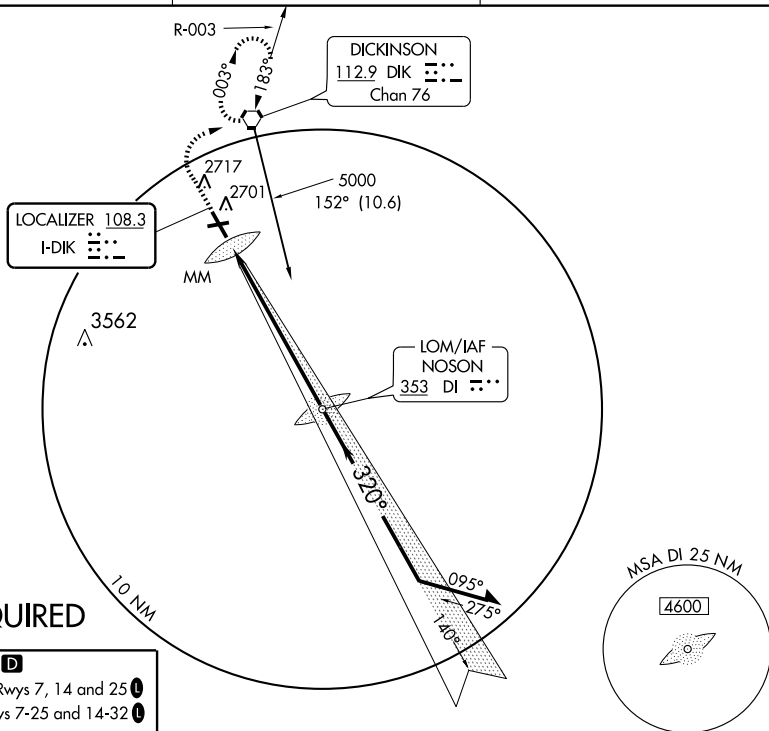
**T** If local altimeter not received, use Bowman Muni altimeter setting and increase S-ILS DA to 3058 and all MDAs 280 feet.

**A** NA

MALSR

**MISSED APPROACH:** Climb to 5000 then right turn direct DIK VORTAC and hold.

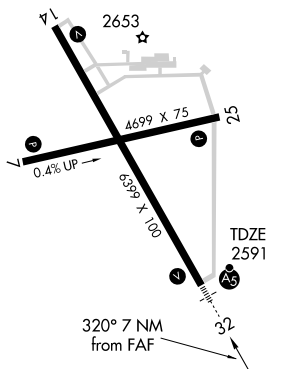
ASOS <b>118.375</b>	MINNEAPOLIS CENTER <b>124.25 380.3</b>	UNICOM <b>123.0 (CTAF) ①</b>
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## ADF REQUIRED

ELEV 2592	D
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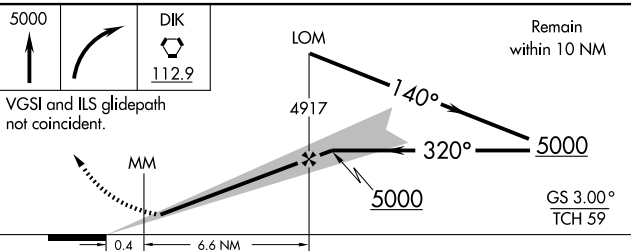
REIL Rwys 7, 14 and 25 **L**  
MIRL Rwys 7-25 and 14-32 **L**



FAF to MAP 7 NM					
Knots	60	90	120	150	180
Min:Sec	7:00	4:40	3:30	2:48	2:20

5000 ↑		DIK  <u>112.9</u>
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VGSI and ILS glidepath  
not coincident.



CATEGORY	A	B	C	D
S-ILS 32	2791-½ 200 (200-½)			
S-LOC 32	3080-½ 489 (500-½)		3080-¾ 489 (500-¾)	3080-1 489 (500-1)
CIRCLING	3080-1 488 (500-1)		3080-1½ 488 (500-1½)	3160-2 568 (600-2)

DICKINSON, NORTH DAKOTA  
Amdt 1A 09295

DICKINSON-THEODORE ROOSEVELT RGNL (DIK)

46° 48'N - 102° 48'W

ILS or LOC RWY 32

WAAS CH <b>56211</b> <b>W14A</b>	APP CRS <b>140°</b>	Rwy Idg TDZE Apt Elev	<b>6399</b> <b>2589</b> <b>2592</b>
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**RNAV (GPS) RWY 14**

DICKINSON-THEODORE ROOSEVELT RGNL (DIK)

**▼** DME/DME RNP-0.3 NA. Baro-VNAV NA below -20°C (-4°F).  
**▲** VDP and Baro/VNAV NA when using Bowman Muni altimeter setting.  
 If local altimeter not received, use Bowman Muni altimeter setting and increase all DAs/MDAs 280 feet.

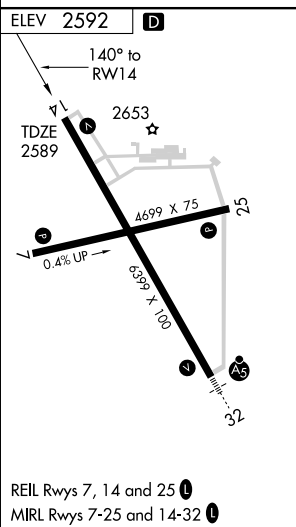
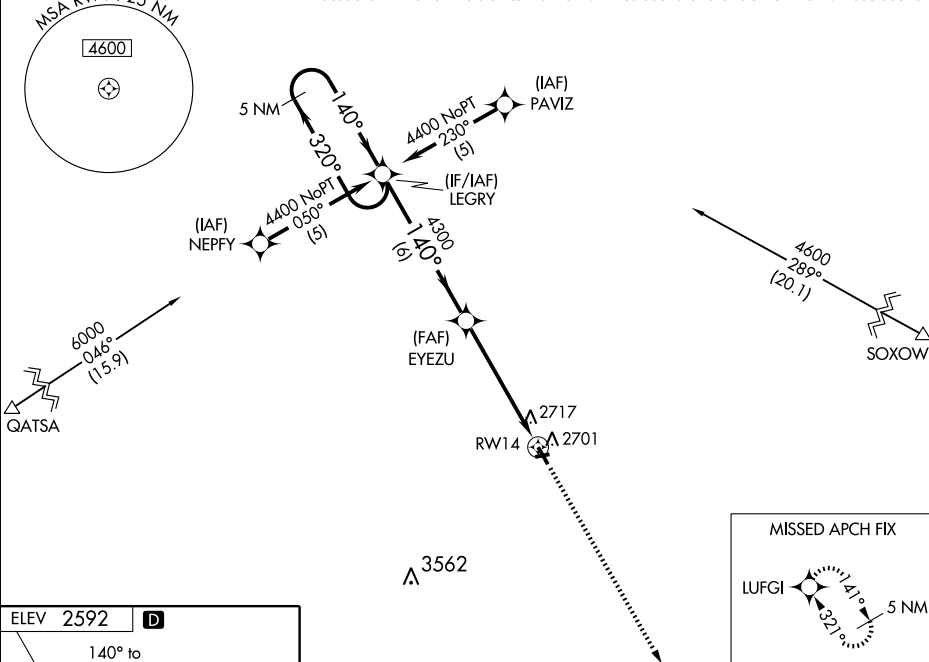
**MISSED APPROACH:** Climb to 5000 direct LUFGI and hold.

ASOS  
**118.375**

MINNEAPOLIS CENTER  
**124.25 380.3**

UNICOM  
**123.0 (CTAF) 0**

Procedure NA for arrivals at QATSA on V2 westbound and at SOXOW on V2 eastbound.



<p>5 NM Holding Pattern</p> <p>LEGRY</p> <p>EYEZU</p> <p>4400 ← 320°</p> <p>→ 140°</p> <p>GS 3.00°</p> <p>TCH 40</p> <p>6 NM</p> <p>4 NM</p> <p>1.2</p> <p>RWY 14</p> <p>*1.2 NM to RWY 14</p> <p>*LNAV only</p>				
<p>5000 LUFGI</p>				
CATEGORY	A	B	C	D
LPV DA	2840-1 251 (300-1)			
LNAV/VNAV DA	3060-1¾ 471 (500-1¾)			
LNAV MDA	3020-1	431 (500-1)	3020-1½ 431 (500-1½)	3020-1½ 431 (500-1½)
CIRCLING	3080-1¾ 488 (500-1¾)			3160-2 568 (600-2)

WAAS CH <b>45512</b> <b>W32A</b>	APP CRS <b>320°</b>	Rwy Idg TDZE Apt Elev	<b>6399</b> <b>2591</b> <b>2592</b>
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## RNAV (GPS) RWY 32

DICKINSON-THEODORE ROOSEVELT RGNL (DIK)

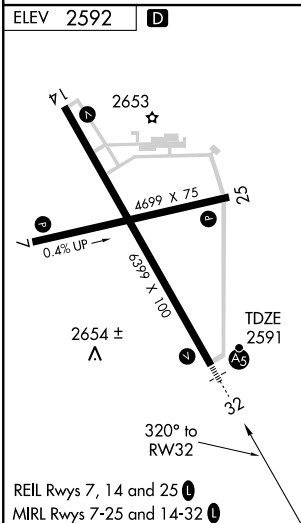
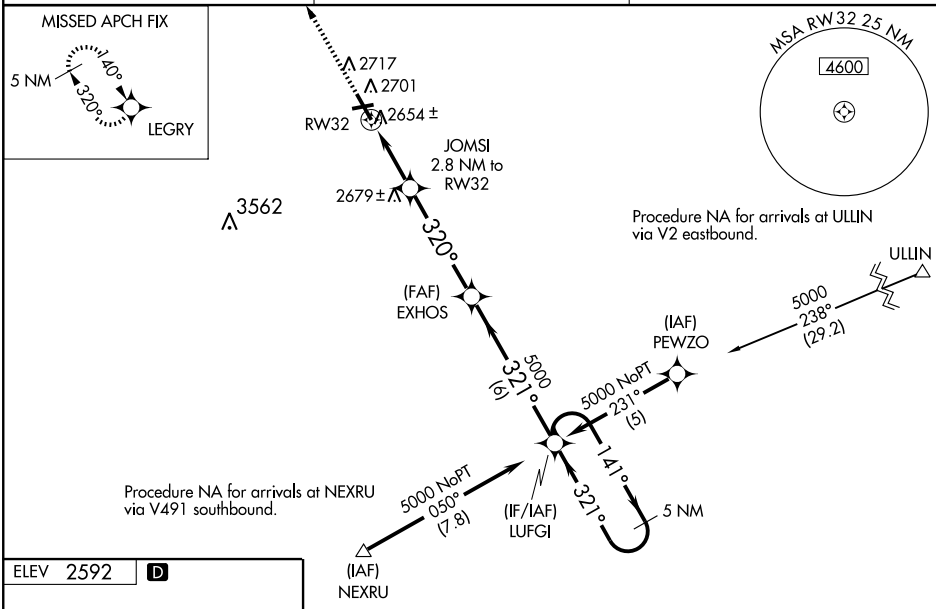
▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 44°C (111°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Bowman altimeter setting and increase all DA 266 feet, all MDA 280 feet, increase LPV all Cats visibility ½ mile, LNAV/VNAV Cats A/B/C visibility 1 mile, Cat D visibility ¾ mile, LNAV Cats C/D visibility ¾ mile, Circling Cat B visibility ¼ mile, Cats C/D visibility ¾ mile. For inoperative MALS when using Bowman altimeter setting, increase LPV all Cats visibility to 1½, LNAV/VNAV all Cats visibility to 2, LNAV Cat C visibility to 2 and Cat D visibility to 2¼. For inoperative MALS, increase LNAV/VNAV Cat D visibility to 1 and LNAV Cat D visibility to 1¼. VDP and Baro-VNAV NA when using Bowman altimeter setting.

MALSR



MISSED APPROACH  
Climb to 5000 direct  
LEGRY and hold.

ASOS <b>118.375</b>	MINNEAPOLIS CENTER <b>124.25 380.3</b>	UNICOM <b>123.0 (CTAF) 0</b>
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5000	LEGRY	VGSI and RNAV glidepath not coincident.				5 NM
						Holding Pattern
*LNAV only		JOMSI 2.8 NM to RW32	EXHOS	LUFGI		
*1.2 NM to RW32		320°	321°	141°	5000	
1.2 NM		3540*	5000	321°	GS 3.00°	TCH 59
1.2 NM		1.6 NM	4.4 NM	6 NM		
CATEGORY	A	B	C	D		
LPV DA	2791-½ 200 (200-½)					
LNAV/VNAV DA	2924-½ 333 (400-½)				2924-¾ 333 (400-¾)	
LNAV MDA	3000-½ 409 (500-½)		3000-¾ 409 (500-¾)		3000-1 409 (500-1)	
CIRCLING	3080-1 488 (500-1)		3080-1½ 488 (500-1½)		3160-2 568 (600-2)	

VORTAC DIK <b>112.9</b> Chan <b>76</b>	APP CRS <b>183°</b>	Rwy ldg TDZE Apt Elev <b>2592</b>	<b>N/A</b> <b>N/A</b> <b>2592</b>
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DICKINSON-THEODORE ROOSEVELT RGNL (DIK)

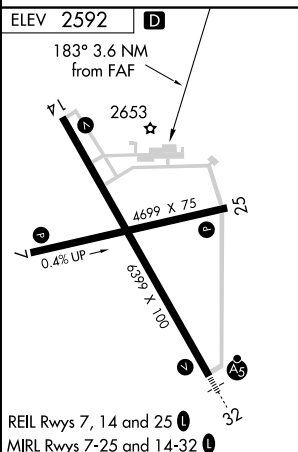
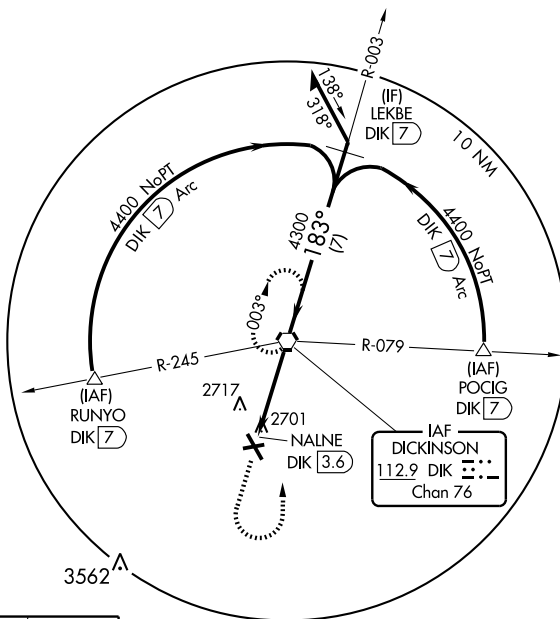
**V** If local altimeter setting not received, use Bowman Muni altimeter setting and increase all MDAs 280 feet.

MISSED APPROACH: Climb to 4600 then turn left direct DIK VORTAC and hold.

ASOS  
**118.375**






MINNEAPOLIS CENTER  
**124.25 380.3**

UNICOM  
**123.0 (CTAF) 0**



REIL Rws 7, 14 and 25  
MIRL Rws 7-25 and 14-32

FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12

<div><div><div>4600</div><div></div></div><div><div></div><div><div>DIK</div><div></div><div>112.9</div></div></div></div> <div><div><div>NALNE</div><div>DIK</div><div>3.6</div></div><div></div><div></div><div><div>VORTAC</div><div>003°</div><div>183°</div><div>4400</div><div>4300</div><div>Remain within 10 NM</div></div><div>3.6 NM</div></div>				
CATEGORY	A	B	C	D
CIRCLING	3080-1	488 (500-1)	3080-1½ 488 (500-1½)	3160-2 568 (600-2)

DICKINSON, NORTH DAKOTA

Amdt 6 09295

DICKINSON-THEODORE ROOSEVELT RGNL (DIK)

46° 48'N - 102° 48'W

VOR-A



## AIRPORT DIAGRAM

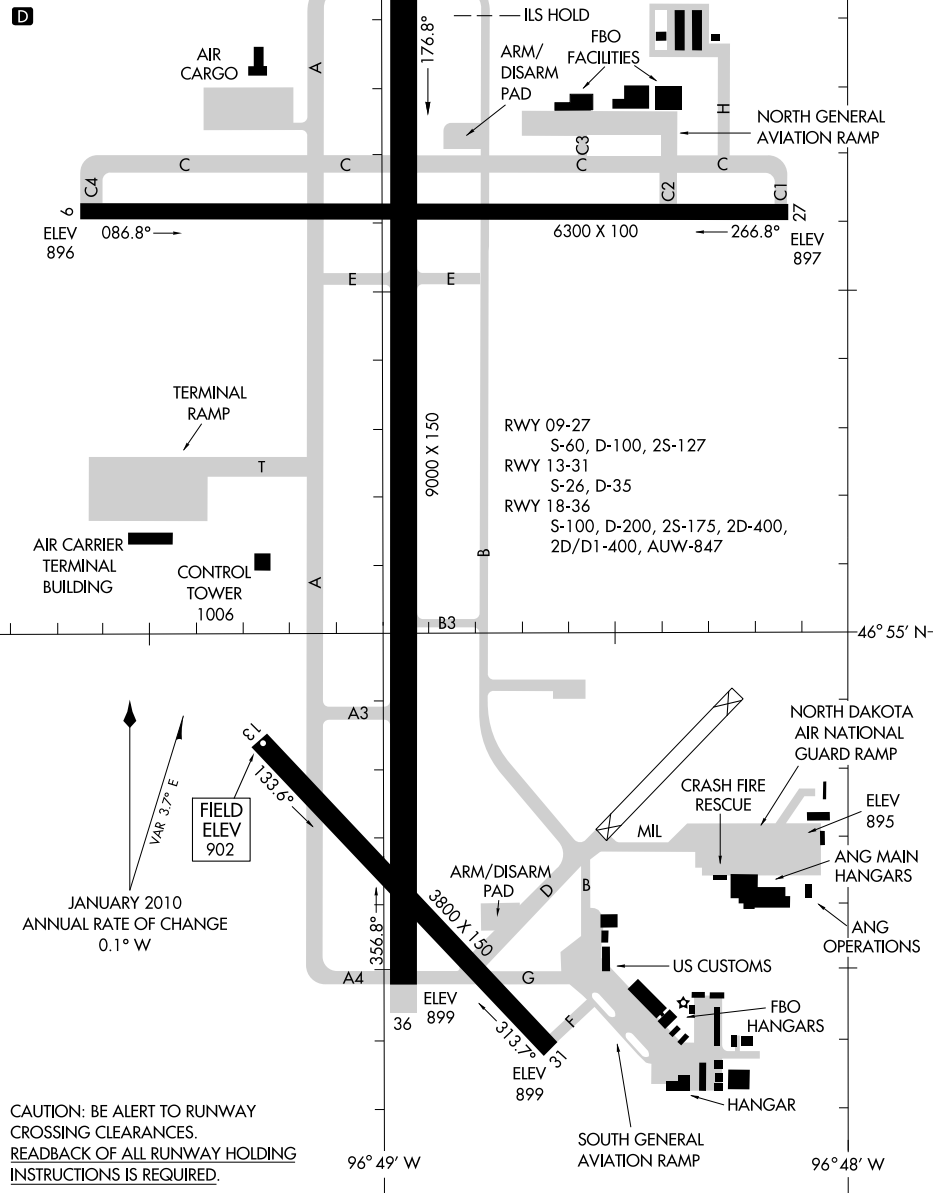
AL-144 (FAA)

FARGO/HECTOR INTL (FAR)

FARGO, NORTH DAKOTA

ATIS  
124.5 379.2  
FARGO TOWER  
133.8 290.4  
GND CON  
121.9 348.6  
CLNC DEL  
121.9 348.6

D



NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

## AIRPORT DIAGRAM

FARGO, NORTH DAKOTA  
FARGO/HECTOR INTL (FAR)

## FARGO

HECTOR INTL (FAR) 3 NW UTC-6(-5DT) N46°55.24' W96°48.95'

TWIN CITIES

902 B S4 FUEL 100LL, JET A, JET 8 OX 1, 2, 3, 4 TPA—See Remarks AOE

H-2H, L-14G

Class I, ARFF Index C NOTAM FILE FAR

IAP, AD

RWY 18-36: H9000X150 (CONC-GRVD) S-100, D-200, 2S-175, 2D-400, 2D/D1-400, AUW-847 HIRL

RWY 18: MALSR. PAPI(P4L)—GA 3.0° TCH 68'.

RWY 36: MALSR. PAPI(P4R)—GA 3.0° TCH 71'.

RWY 09-27: H6300X100 (CONC-GRVD) S-60, D-100, 2S-127

MIRL

RWY 09: REIL. PAPI(P4L)—GA 3.0° TCH 42'.

RWY 27: REIL. PAPI(P4L)—GA 3.0° TCH 26'.

RWY 13-31: H3800X150 (ASPH-CONC) S-26, D-35 MIRL

RWY 13: VASI(V4L)—GA 3.0° TCH 61'. Road.

RWY 31: Road.

## RUNWAY DECLARED DISTANCE INFORMATION

RWY 09: TORA-6300 TODA-6300 ASDA-6300 LDA-6300

RWY 13: TORA-3800 TODA-3800 ASDA-3800 LDA-3800

RWY 18: TORA-9000 TODA-9000 ASDA-9000 LDA-9000

RWY 27: TORA-6300 TODA-6300 ASDA-6300 LDA-6300

RWY 31: TORA-3800 TODA-3800 ASDA-3800 LDA-3800

RWY 36: TORA-9000 TODA-9000 ASDA-9000 LDA-9000

RWY 36: TORA-9000 TODA-9000 ASDA-9000 LDA-9000

AIRPORT REMARKS: Attended continuously. Birds on and in/ovf arpt. Rwy

13-31 not avbl for air carrier ops with 10 or more passenger seats. East twy paralleling Rwy 18-36, clsd to acft over 130,000 lbs. Rwy 18-36 TPA for turbine acft 1902 (1000), TPA for piston acft 1802 (900). Flight Notification Service (ADCUS) available Mon-Fri 1430-2300Z†.

WEATHER DATA SOURCES: ASOS (701) 298-3877. HIWAS 116.2 FAR.

COMMUNICATIONS: ATIS 124.5 UNICOM 122.95

FARGO RCO 122.425 (GRAND FORKS RADIO)

R FARGO APP/DEP CON 120.4 125.125 (1200-0500Z†)

FARGO TOWER 133.8 GND CON 121.9 CLNC DEL 121.9

R MINNEAPOLIS CENTER APP/DEP CON 127.35 (0500-1200Z†)

AIRSPACE: TRSA svc cto APP CON within 20 NM.

RADIO AIDS TO NAVIGATION: NOTAM FILE FAR.

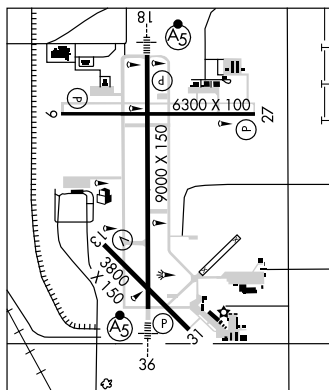
FARGO (H) VORTACW 116.2 FAR Chan 109 N46°45.20' W96°51.08' 359° 10.1 NM to fld. 910/9E.

HIWAS.

KENIE NDB (HW/LOM) 365 AA N47°00.56' W96°48.91' 174° 5.3 NM to fld.

ILS 110.3 I-FAR Rwy 36. Class 1E.

ILS 108.9 I-AAM Rwy 18. Class 1E. LOM KENIE NDB.



WEST FARGO MUNI (D54) 6 NW UTC-6(-5DT) N46°54.05' W96°55.12'

TWIN CITIES

896 B S4 OX 1, 2 TPA-1696(800) NOTAM FILE GFK

L-14G

RWY 18-36: H3300X50 (ASPH) S-12.5 LIRL

RWY 18: Road. Rgt tfc.

RWY 36: Tower.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z†. Parachute Jumping on and in/ovf arpt. Deer and birds on and in/ovf arpt. Confirm winter conditions after major storm—call 701-281-9394, or cell 701-866-4970. ACTIVATE LIRL Rwy 18-36—CTAF.

COMMUNICATIONS: CTAF 122.7

RADIO AIDS TO NAVIGATION: NOTAM FILE FAR.

FARGO (H) VORTACW 116.2 FAR Chan 109 N46°45.20' W96°51.08' 334° 9.3 NM to fld. 910/9E.

HIWAS.

FESSENDEN MUNI (D24) 3 NW UTC-6(-5DT) N47°39.58' W99°39.66'

TWIN CITIES

1619 NOTAM FILE GFK

RWY 08-26: 2940X120 (TURF) LIRL

RWY 08: Road.

RWY 26: Trees.

AIRPORT REMARKS: Unattended. Waterfowl and deer on or in/ovf arpt during migratory season. Dalgt cone markers at rwy thlds, and stopway areas. Rwy 08 has 5' dropoff 30' from thld. No snow removal avbl—confirm condition prior to use Oct-Apr. ACTIVATE LIRL Rwy 08-26—CTAF.

COMMUNICATIONS: CTAF 122.9

LOC I-AAM <b>108.9</b>	APP CRS <b>176°</b>	Rwy Idg TDZE Apt Elev	<b>9000</b> <b>900</b> <b>902</b>
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## ILS or LOC RWY 18

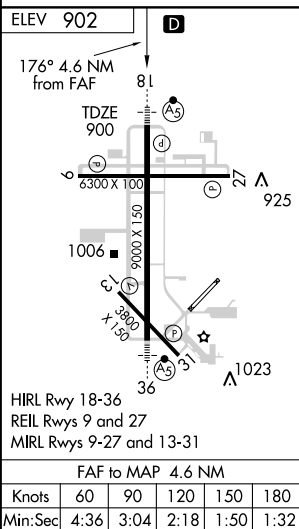
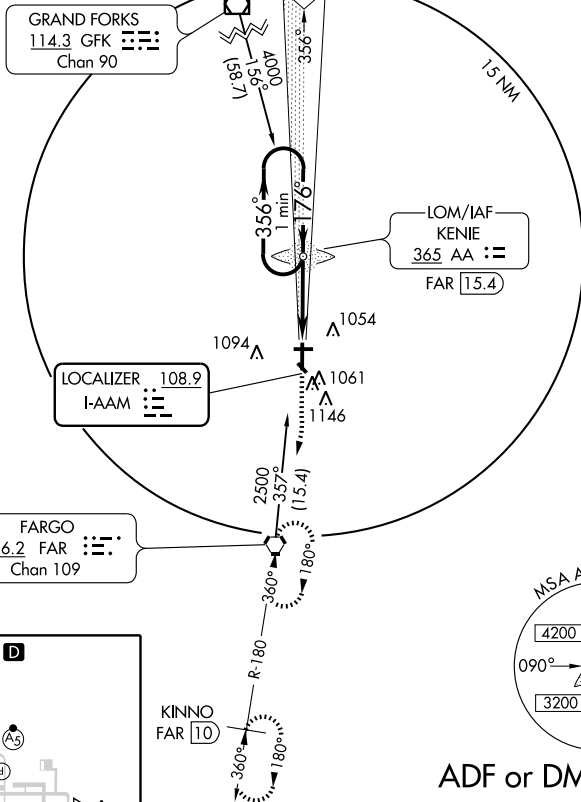
FARGO/HECTOR INTL (FAR)

**▼** For inoperative MALSR, increase S-ILS 18 Cat E visibility to RVR 4000, and S-LOC 18 Cat E visibility to RVR 5000.  
**▲** \* Visibility CAT A/B/C/D RVR 1800 authorized with the use of FD or AP or HUD to DA.



**MISSED APPROACH:** Climb to 2500 direct FAR VORTAC and hold. (TACAN aircraft climb to 3500 direct FAR VORTAC, then via FAR R-180 to KINNO/FAR 10 DME and hold S, RT, 360° inbound.)

ATIS <b>124.5 379.2</b>	FARGO APP CON★ <b>120.4 377.15</b>	FARGO TOWER <b>133.8 290.4</b>	GND CON <b>121.9 348.6</b>	CLNC DEL <b>121.9 348.6</b>
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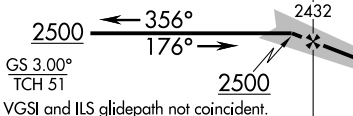


FARGO, NORTH DAKOTA

Orig-A 10098

46°55'N-96°49'W

ADF or DME REQUIRED

One Minute  
Holding Pattern

CATEGORY	A	B	C	D	E
S-ILS 18	*1100/24 200 (200-1/2)				
S-LOC 18	1260/24 360 (400-1/2)		1260/40 360 (400-3/4)		
CIRCLING	1380-1 478 (500-1)		1380-1 1/2 478 (500-1 1/2)	1500-2 598 (600-2)	1560-2 1/4 658 (700-2 1/4)

FARGO/HECTOR INTL (FAR)

ILS or LOC RWY 18

LOC I-FAR <b><u>110.3</u></b>	APP CRS <b>356°</b>	Rwy Idg <b>9000</b> TDZE <b>899</b> Apt Elev <b>902</b>
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## ILS or LOC RWY 36

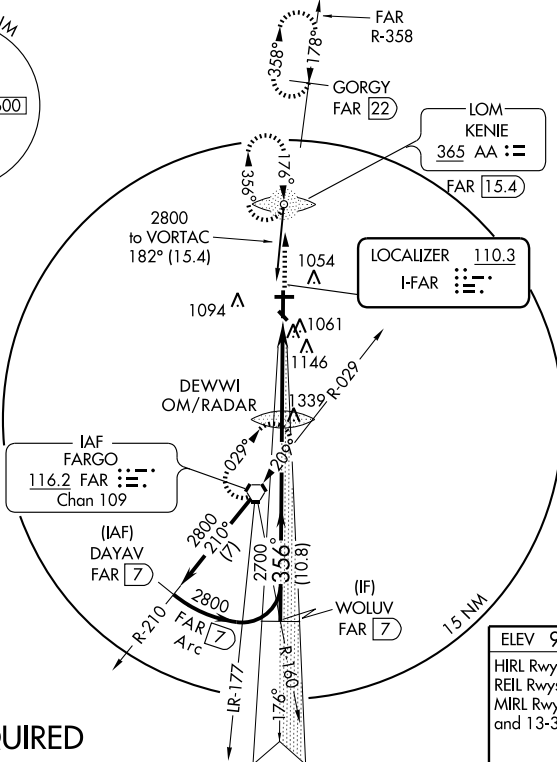
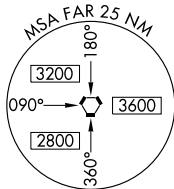
FARGO/HECTOR INTL (FAR)

**T** For inoperative MALS, increase S-ILS 36 Cat E visibility to RVR 4000, and S-LOC 36 Cat E visibility to 1½.  
**A** # Visibility CAT A/B/C/D RVR 1800 authorized with the use of FD or AP or HUD to DA. ADF or DME required.

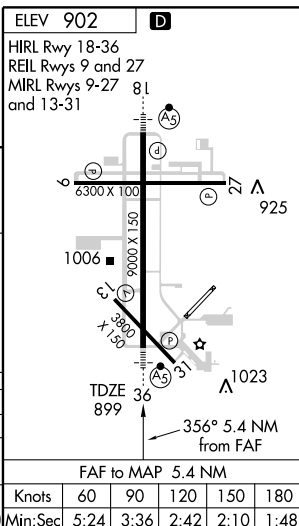
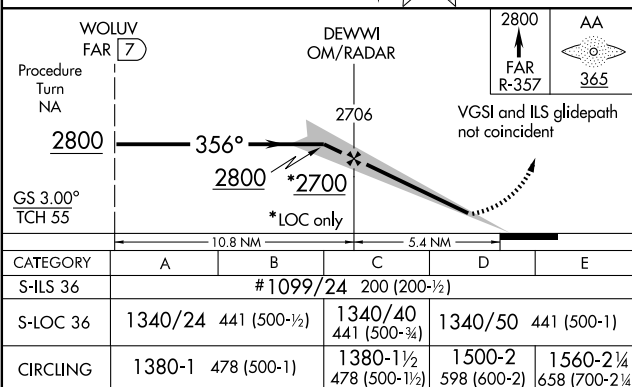


**MISSED APPROACH:** Climb via FAR R-357 to 2800 direct KENIE LOM and hold. (DME aircraft climb to 4000 via FAR R-358 to GORGY/FAR 22 DME and hold N, RT, 178° inbound.)

ATIS 124.5 379.2	FARGO APP CON★ 120.4 377.15	FARGO TOWER 133.8 290.4	GND CON 121.9 348.6	CLNC DEL 121.9 348.6
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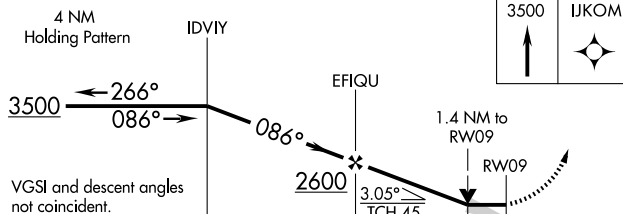
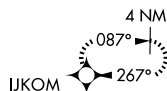
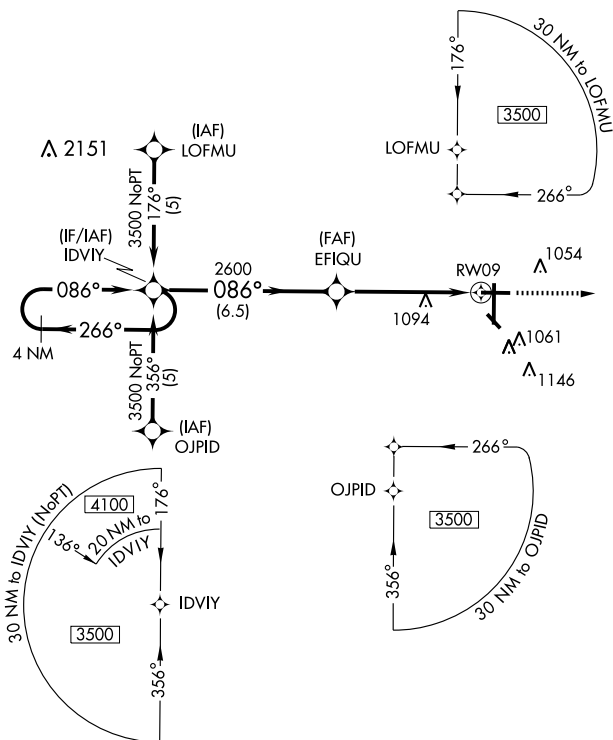
## DME REQUIRED



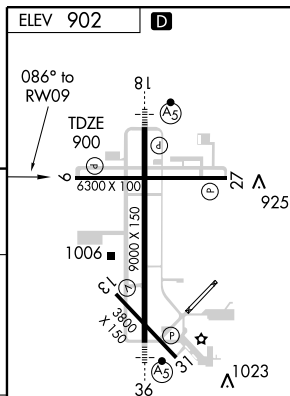
APP CRS  
**086°**Rwy Idg **6300**  
TDZE **900**  
Apt Elev **902****RNAV (GPS) RWY 9**  
FARGO/HECTOR INTL (FAR)

DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3500 direct IJKOM and hold.

ATIS  
**124.5 379.2**FARGO APP CON★  
**120.4 377.15**FARGO TOWER  
**133.8 290.4**GND CON  
**121.9 348.6**CLNC DEL  
**121.9 348.6**VGSI and descent angles  
not coincident.

CATEGORY	A	B	C	D
LNNAV MDA	1360-1	460 (500-1)	1360-1½ 460 (500-1½)	1360-1½ 460 (500-1½)
CIRCLING	1380-1	478 (500-1)	1380-1½ 478 (500-1½)	1500-2 598 (600-2)

HIRL Rwy 18-36  
REIL Rwy 9 and 27  
MIRL Rwy 9-27 and 13-31

WAAS CH <b>40006</b> <b>W18A</b>	APP CRS <b>176°</b>	Rwy Idg <b>9000</b> TDZE <b>900</b> Apt Elev <b>902</b>
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## RNAV (GPS) RWY 18

FARGO/HECTOR INTL (FAR)

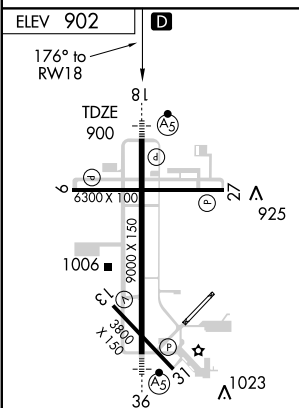
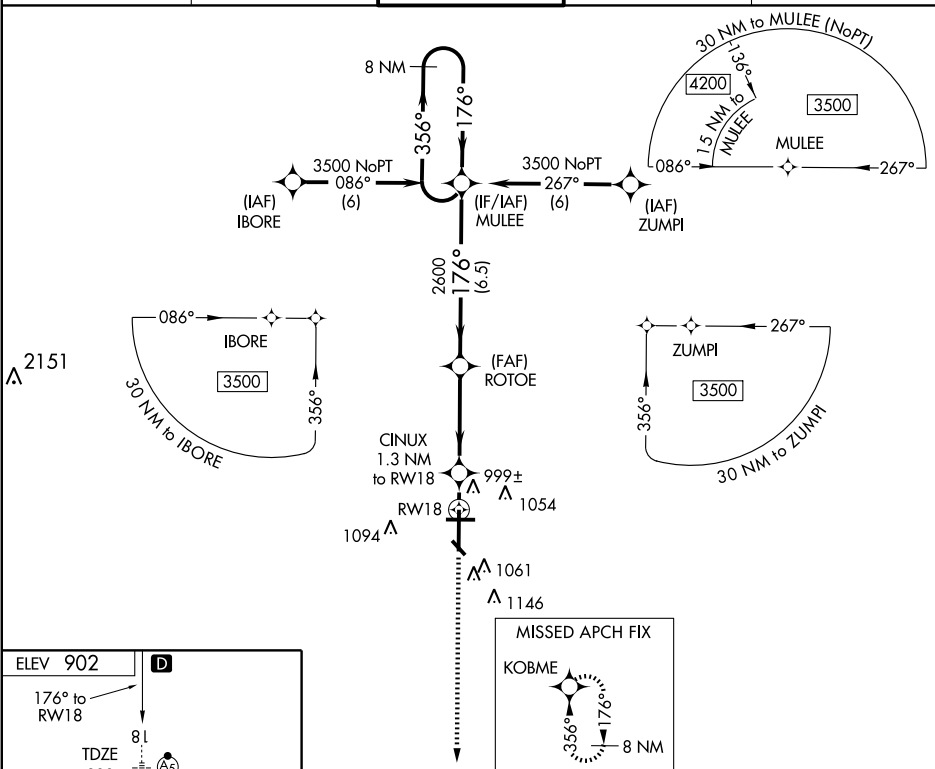
**A** For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F). DME/DME RNP-0.3 NA.

MALSR



MISSED APPROACH: Climb to 3500  
direct KOBME and hold.

ATIS 124.5 379.2	FARGO APP CON★ 120.4 377.15	FARGO TOWER 133.8 290.4	GND CON 121.9 348.6	CLNC DEL 121.9 348.6
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HIRL Rwy 18-36  
REIL Rwy 9 and 27  
MIRL Rwy 9-27 and 13-31

8 NM Holding Pattern MULEE

3500 ← 356° 176° →

GS 3.00° TCH 51

VGSI and RNAV glidepath not coincident.

ROTOE 2600

CINUX 1.3 NM to RW18

RW18

\*1360

6.5 NM 3.8 NM 1.3 NM

CATEGORY	A	B	C	D	E
LPV DA	1100/24 200 (200-½)				
LNAV/VNAV DA	1272/40 372 (400-¾)				
LNAV MDA	1260/24 360 (400-½)			1260/50 360 (400-1)	
CIRCUING	1380-1 478 (500-1)		1380-1½ 478 (500-1½)	1500-2 598 (600-2)	1560-2¼ 658 (700-2¼)

FARGO, NORTH DAKOTA

Amdt 1 08APR10

46°55'N - 96°49'W

FARGO/HECTOR INTL (FAR)

RNAV (GPS) RWY 18

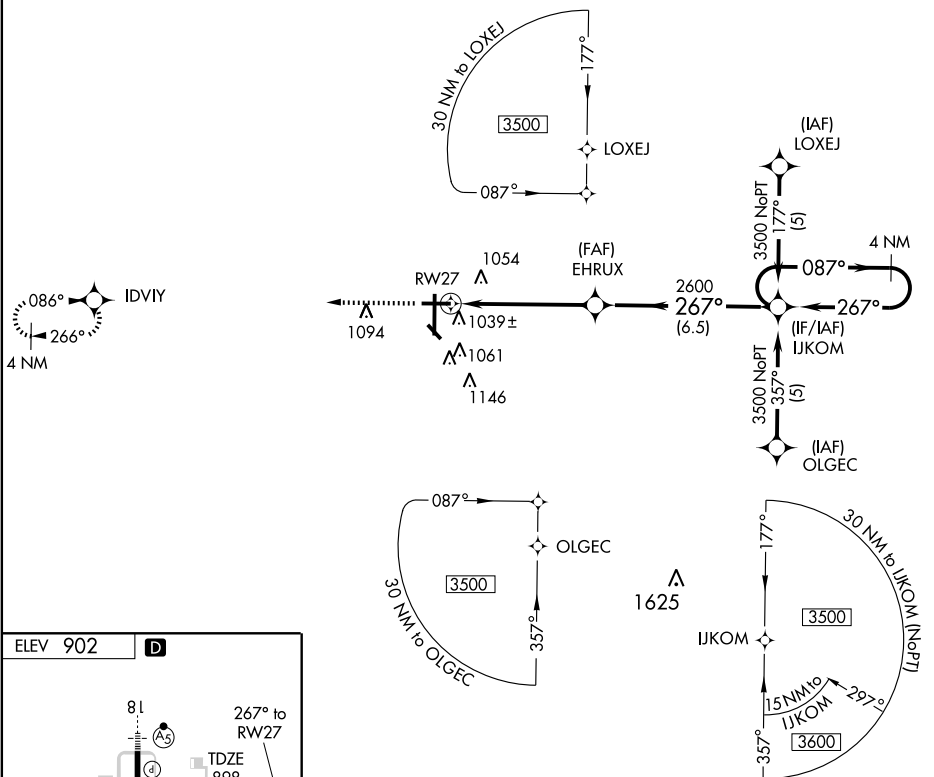
NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1. 26 AUG 2010 to 23 SEP 2010

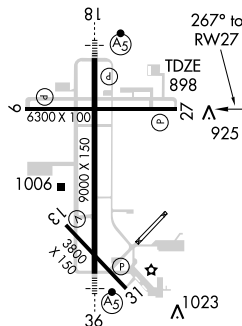
APP CRS  
**267°**Rwy Idg **6300**  
TDZE **898**  
Apt Elev **902****RNAV (GPS) RWY 27**  
FARGO/HECTOR INTL (FAR)

DME/DME RNP- 0.3 NA.

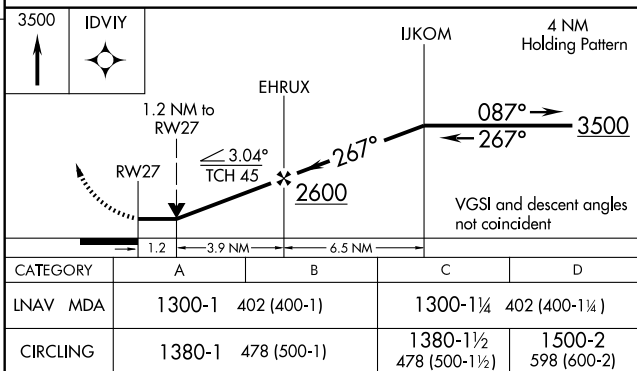
MISSED APPROACH: Climb to 3500 direct IDVIY and hold.

ATIS  
**124.5 379.2**FARGO APP CON ★  
**120.4 377.15**FARGO TOWER  
**133.8 290.4**GND CON  
**121.9 348.6**CLNC DEL  
**121.9 348.6**

ELEV 902

**D**HIRL Rwy 18-36  
REIL Rwy 9 and 27  
MIRL Rwy 9-27 and 13-31FARGO, NORTH DAKOTA  
Orig 10098


46° 55'N - 96° 49'W

**RNAV (GPS) RWY 27**

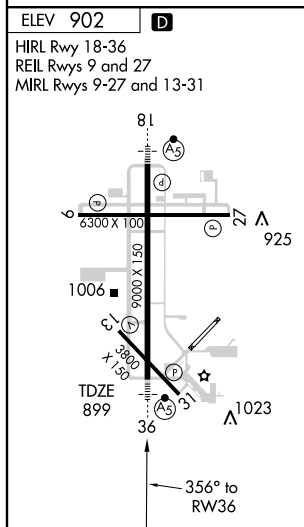
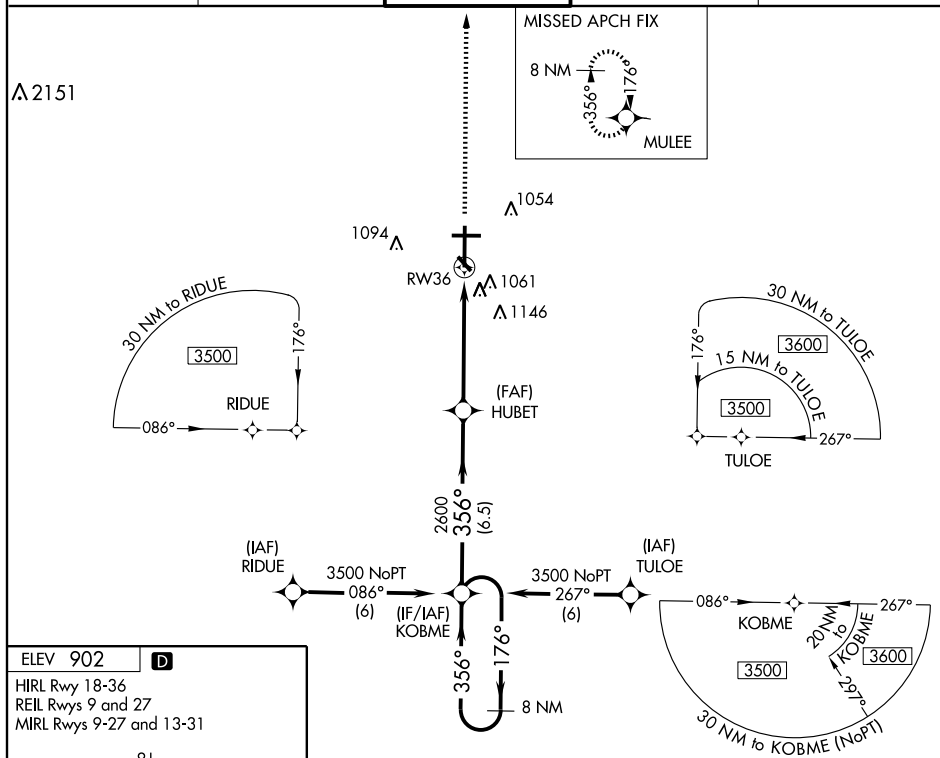
WAAS CH <b>50106</b> <b>W36A</b>	APP CRS <b>356°</b>	Rwy Idg TDZE Apt Elev	<b>9000</b> <b>899</b> <b>902</b>
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# RNAV (GPS) RWY 36

FARGO/HECTOR INTL (FAR)

<b>V</b> DME/DME RNP -0.3 NA. <b>A</b> Baro-VNAV NA below -16°C (4°F). <b>W</b> For inoperative MALSR, increase LPV Cat E visibility to RVR 4000, and increase LNAV/VNAV and LNAV Cat E visibility to 1¾ mile.	MALSR 	MISSED APPROACH: Climb to 3500 direct MULEE and hold.
--	--	---

ATIS <b>124.5 379.2</b>	FARGO APP CON★ <b>120.4 377.15</b>	FARGO TOWER <b>133.8 290.4</b>	GND CON <b>121.9 348.6</b>	CLNC DEL <b>121.9 348.6</b>
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8 NM Holding Pattern		KOBME	VGSI and RNAV glidepath not coincident.		3500	MULEE
3500		←176°	356°→	356°		
GS 3.00° TCH 55			HUBET	*1.4 NM to RW36		
			2600	*LNAV only		
		6.5 NM		3.7 NM	1.4 NM	
CATEGORY	A		B	C	D	E
LPV DA	1150/24 251 (300-½)					
LNAV/VNAV DA	1360/50 461 (500-1)					1360/60 461 (500-1¼)
LNAV MDA	1420/24 521 (600-½)		1420/50 521 (600-1)		1420/60 521 (600-1¼)	
CIRCLING	1420-1½ 518 (600-½)				1500-2 598 (600-2)	1560-2¼ 658 (700-2¼)



VORTAC FAR  
**116.2**  
Chan **109**

APP CRS  
**179°**

Rwy Idg **9000**  
TDZE **900**  
Apt Elev **902**

# VOR/DME or TACAN RWY 18

FARGO/HECTOR INTL (FAR)



For inoperative MALS, increase Cat D visibility to RVR 6000 and Cat E to 1½.



MISSED APPROACH: Climb to 3500 then right turn via heading 016° and FAR R-359 to WESBY/15.7 DME and hold.

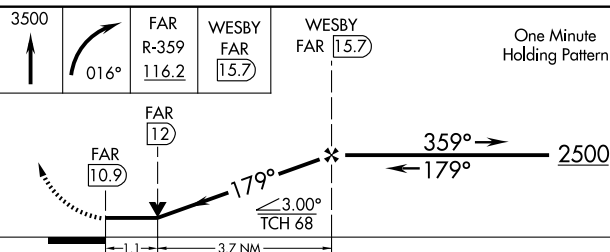
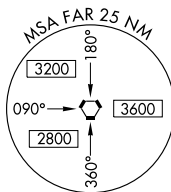
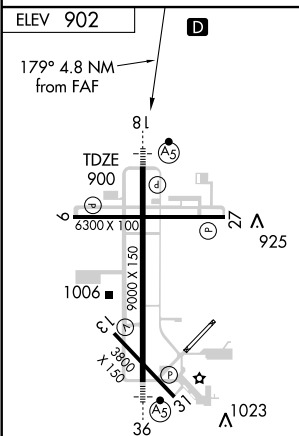
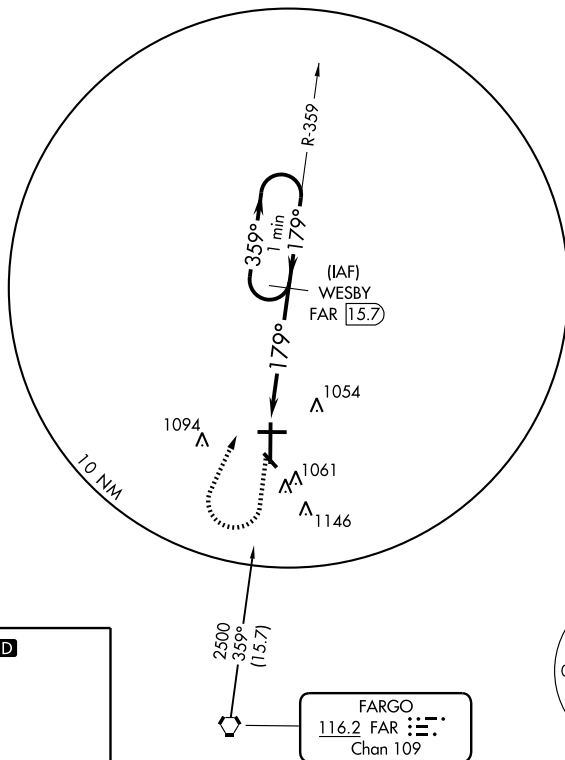
ATIS  
**124.5 379.2**

FARGO APP CON★  
**120.4 377.15**

FARGO TOWER  
**133.8 290.4**

GND CON  
**121.9 348.6**

CLNC DEL  
**121.9 348.6**



CATEGORY	A	B	C	D	E
S-18	1320/24	420 (500-½)	1320/40 420 (500-¾)	1320/50	420 (500-1)
CIRCLING	1380-1	478 (500-1)	1380-1½ 478 (500-1½)	1500-2 598 (600-2)	1560-2¼ 658 (700-2¼)

HIRL Rwy 18-36  
REIL Rwy 9 and 27  
MIRL Rwy 9-27 and 13-31

FARGO, NORTH DAKOTA  
Amdt 1B 10098

46°55'N-96°49'W

FARGO/HECTOR INTL (FAR)

# VOR/DME or TACAN RWY 18

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

## VOR or TACAN RWY 36

FARGO/HECTOR INTL (FAR)

VORTAC FAR	APP CRS	Rwy Idg	9000
116.2	360°	TDZE	899
Chan 109		Apt Elev	902



VOR MINIMUMS: For inoperative MALSR, increase S-36 Cat E visibility to 2½ miles.  
STABS FIX MINIMUMS: For inoperative MALSR, increase S-36 Cat E visibility to 1¾ mile.

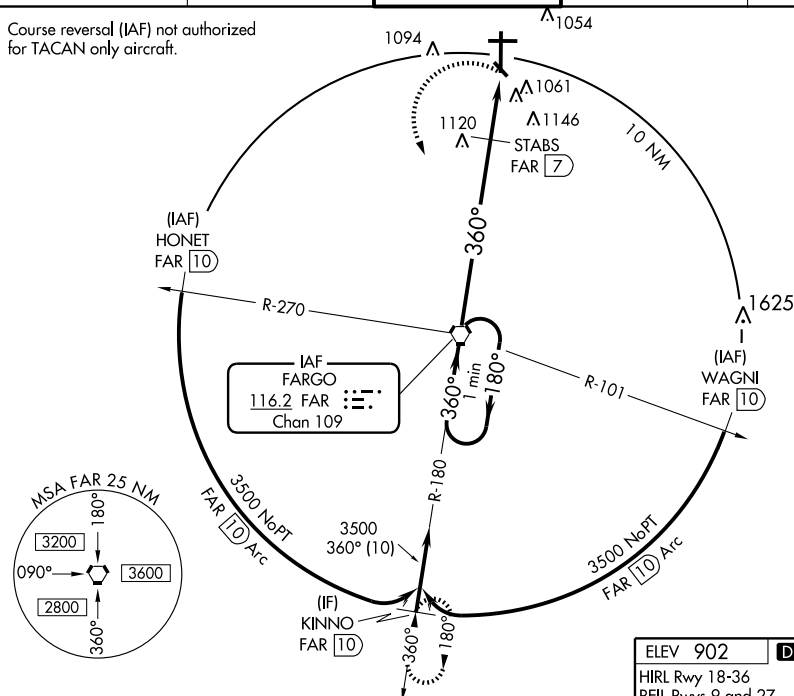
MALSR



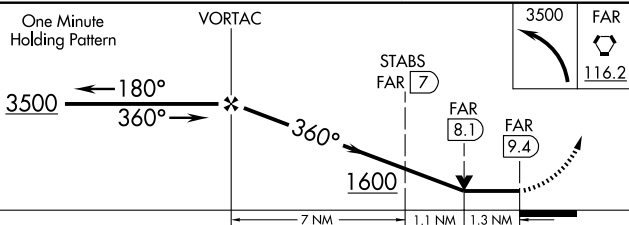
MISSED APPROACH: Climbing left turn to 3500 direct FAR VORTAC and hold. (TACAN aircraft climbing left turn to 3500 direct FAR VORTAC, then via FAR R-180 to KINNO/FAR 10 DME and hold South, right turns, 360° inbound.)

ATIS	FARGO APP CON*	FARGO TOWER	GND CON	CLNC DEL
124.5 379.2	120.4 377.15	133.8 290.4	121.9 348.6	121.9 348.6

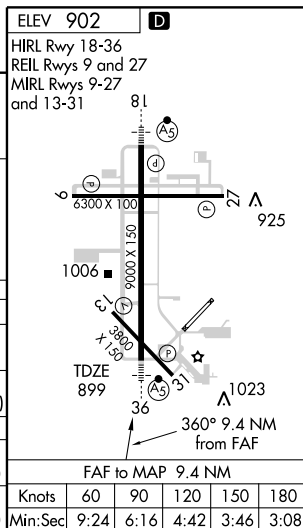
Course reversal (IAF) not authorized for TACAN only aircraft.



One Minute Holding Pattern



CATEGORY	A	B	C	D	E
S-36	1600/24	701 (700-½)	1600-1½ 701 (700-1½)	1600-1¾ 701 (700-1¾)	1600-2 701 (700-2)
CIRCLING	1600-1	698 (700-1)	1600-2 698 (700-2)	1600-2¼ 698 (700-2¼)	1600-2½ 698 (700-2½)
STABS FIX MINIMUMS					
S-36	1380/24	481 (500-½)	1380/40 481 (500-¾)	1380/50 481 (500-1)	1380/60 481 (500-1½)
CIRCLING	1380-1	478 (500-1)	1380-1½ 478 (500-1½)	1500-2 598 (600-2)	1560-2¼ 658 (700-2¼)



## FORT YATES

STANDING ROCK (Y27) 1 S UTC-6(-5DT) N46°04.02' W100°37.97'

TWIN CITIES

1633 NOTAM FILE GFK

L-14F

RWY 14-32: H3700X60 (ASPH) S-11.5

RWY 14: Tree. RWY 32: P-line.

**AIRPORT REMARKS:** Unattended. Birds, waterfowl and deer on and in vicinity of airport. Confirm snow removal Oct-Apr call 701-854-7432/7400. +18' irrigators located 130' left and right of centerline near S half Rwy 14-32 violate 7: transition zone. +15' dirt trail on twy across rwy surface east to gravel pit.

**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE BIS.

BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71' W100°39.92' 166° 41.8 NM to fld. 1841/12E.  
HIWAS.

GACKLE MUNI (9G9) 1 SW UTC-6(-5DT) N46°37.00' W99°10.02'

TWIN CITIES

1904 NOTAM FILE GFK

RWY 17-35: 2000X40 (TURF)

RWY 17: Road. RWY 35: Road.

RWY 08-26: 2000X60 (TURF)

**AIRPORT REMARKS:** Unattended. Airport CLOSED winter due to lack of snow removal. Pilots at end of runway cannot see aircraft at opposite end of runway due to runway gradient. Birds on and in vicinity of airport May-Oct. Runway 17-35 and Runway 08-26 marked for daylight by yellow barrel halves. Some animal holes possible both runways. Runway 17-35 and Runway 08-26 turf surface rolling, grass clumpy and possible holes. Trail crossing located 60' inboard Runway 26.

**COMMUNICATIONS:** CTAF 122.9

GARRISON DAM RECREATIONAL AIRPARK (See RIVERDALE)

GARRISON MUNI (D05) 1 W UTC-6(-5DT) N47°39.36' W101°26.23'

BILLINGS

1935 FUEL 100LL NOTAM FILE GFK

L-14F

RWY 13-31: H3700X60 (ASPH-AFSC) S-12.5 LIRL 0.8% up NW

IAP

RWY 13: PAPI(P2L)—GA 3.0° TCH 29'. Road. RWY 31: PAPI(P2L)—GA 3.0° TCH 29'.

RWY 03-21: 2900X120 (TURF)

RWY 03: Road. RWY 21: Trees.

**AIRPORT REMARKS:** Unattended. 24 hr self service credit card fuel available. Wildlife and birds on and in vicinity of airport. To confirm snow removal after major storms call manager 701-337-2294 or 463-2600 City Hall. Runway 03-21 CLSD winter months due to lack of snow removal. Runway 03-21 red/white daylight markers only. LIRL Runway 13-31, PAPI Runway 13 and PAPI Runway 31 open dusk-0500Z after 0500Z activate—CTAF.

**COMMUNICATIONS:** CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 127.6

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BIS.

BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71' W100°39.92' 318° 62.3 NM to fld. 1841/12E.  
HIWAS.

GLEN ULLIN RGNL (D57) 2 W UTC-6(-5DT) N46°48.77' W101°51.61'

BILLINGS

2089 B FUEL 100LL NOTAM FILE GFK

L-14F

RWY 11-29: H3800X60 (ASPH) S-12.5 MIRL

RWY 11: PAPI(P2L)—GA 3.0° TCH 25'. RWY 29: PAPI(P2L)—GA 3.0° TCH 25'. Trees.

**AIRPORT REMARKS:** Unattended. For fuel call 701-348-3170/3683. To confirm irregular snow removal and winter condition call 701-348-3170/3683. ACTIVATE MIRL Runway 11-29 and PAPI Runway 11 and Runway 29—CTAF.

**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE BIS.

BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71' W100°39.92' 262° 49.3 NM to fld. 1841/12E.  
HIWAS.

APP CRS **131°**  
Rwy Idg **3700**  
TDZE **1935**  
Apt Elev **1935**

# RNAV (GPS) RWY 13

GARRISON MUNI (D05)



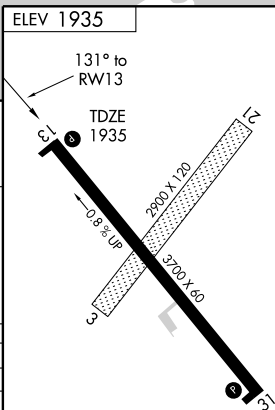
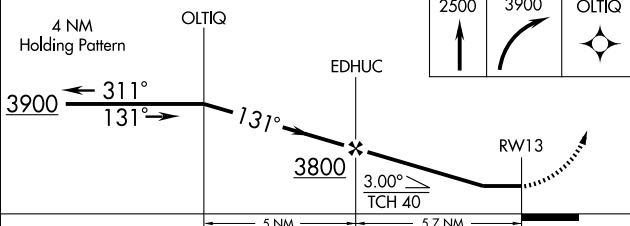
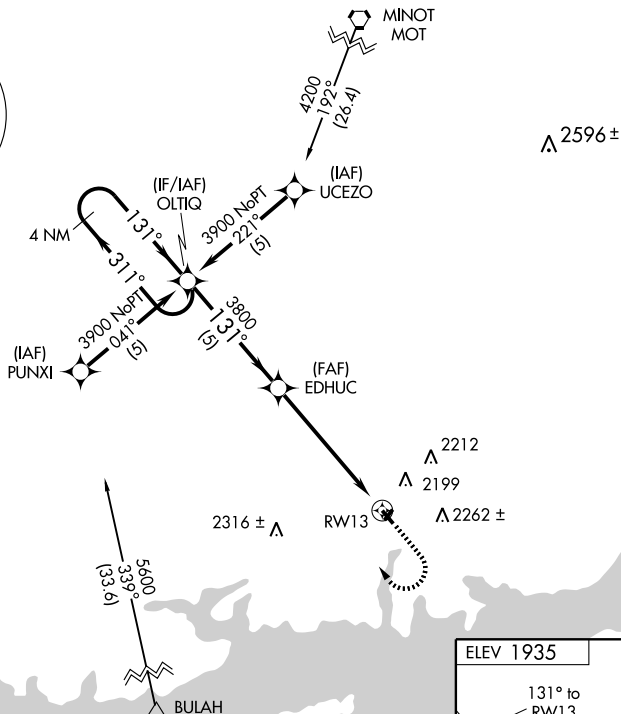
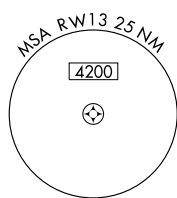
DME/DME RNP 0.3-NA.  
Use Minot Intl altimeter setting.

MISSED APPROACH: Climb to 2500 then climbing right turn to 3900 direct OLTIQ WP and hold.

MINOT ASOS  
**118.725**

MINNEAPOLIS CENTER  
**127.6 279.6**

CTAF  
**122.9**



CATEGORY	A	B	C	D
GLS DA			NA	
LNAV/ VNAV DA			NA	
LNAV MDA	2500-1	565 (600-1)		NA
CIRCLING	2680-1 745 (800-1)	2680-1¼ 745 (800-1¼)		NA

LIRL Rwy 13-31

APP CRS **311°**  
 Rwy Idg **3700**  
 TDZE **1925**  
 Apt Elev **1935**

# RNAV (GPS) RWY 31

GARRISON MUNI (D05)

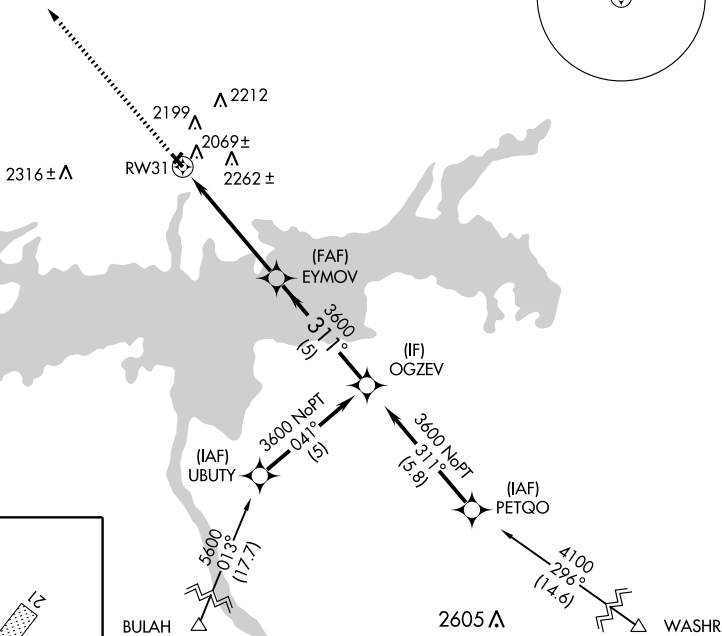
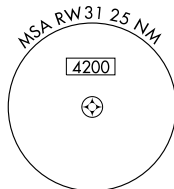
**NA** DME/DME RNP-0.3 NA.  
 Use Minot Intl altimeter setting.

MISSED APPROACH: Climb to 3900 direct OLTIQ and hold.

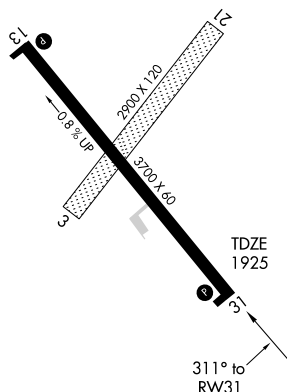
MINOT ASOS  
**118.725**



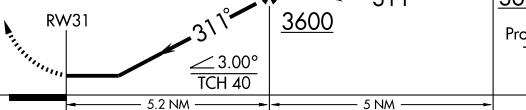
MINNEAPOLIS CENTER  
**127.6 279.6**

CTAF  
**122.9**



ELEV 1935



3900	OLTIQ	EYMOV	OGZEV	
				
				
CATEGORY	A	B	C	D
GLS DA	NA			
LNAV/VNAV DA	NA			
LNAV MDA	2560-1	635 (700-1)	NA	
CIRCLING	2680-1 745 (800-1)	2680-1¼ 745 (800-1¼)	NA	

## GRAFTON

**HUTSON FLD** (GAF) 2 ESE UTC-6(-5DT) N48°24.28' W97°22.26'

824 B **FUEL** 100LL, JET A NOTAM FILE GFK

**RWY 08-26:** 4074X115 (TURF)

**RWY 08:** P-line. **RWY 26:** Road.

**RWY 17-35:** H3898X74 (ASPH-AFSC) S-12.5 MIRL

**RWY 17:** PAPI(P2L)—GA 3.0° TCH 25'. Road.

**RWY 35:** PAPI(P2L)—GA 3.0° TCH 25'. Road.

**AIRPORT REMARKS:** Attended May-Sep dalgt hrs, Oct-Apr Mon-Fri on call. 24 hr self svc fuel avbl with credit card only. For svc after hrs call 701-352-2295 or 701-520-9174. CAUTION ditch between E end of Rwy 08-26 and Rwy 17-35. Heavy aerial spray activity May-Oct. Numerous transient flight training activities. Rwy 08-26 turf surface soft when wet and rough due to sparse grass growth. Use designated twys. Large birds and deer on and invof arpt. Rwy 08-26 CLOSED winter months due to lack of snow removal. Rwy 17-35 parallel twy marked with reflectors. Ponded water between Rwy 17-35 and parallel twy. Rwy 17-35 breaking action poor when wet. Confirm winter conditions and snow removal with arpt manager call 701-352-0271 or 701-360-2295 or 701-520-9174. MIRL Rwy 17-35 and PAPI Rwy 17 and Rwy 35 preset on low ints dusk-0500Z†, to increase ints after 0500Z† ACTIVATE—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.625 (701) 352-0581.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ **GRAND FORKS APP/DEP CON** 118.1

**RADIO AIDS TO NAVIGATION:** NOTAM FILE GFK.

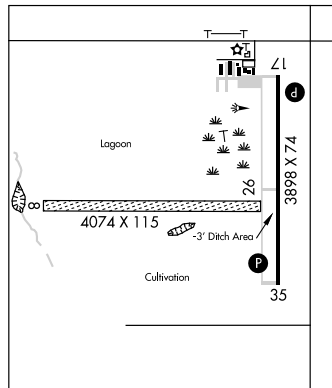
**GRAND FORKS (H) VORW/DME** 114.3 GFK Chan 90 N47°57.29' W97°11.12' 336° 28.0 NM to fld. 841/9E.

HIWAS.

**TWIN CITIES**

**L-14G**

**IAP**



WAAS CH <b>53518</b> <b>W17A</b>	APP CRS <b>174°</b>	Rwy Idg TDZE Apt Elev	<b>3898</b> <b>822</b> <b>824</b>
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# RNAV (GPS) RWY 17

GRAFTON/ HUTSON FIELD (GAF)

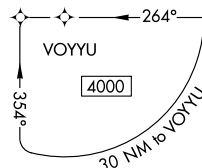
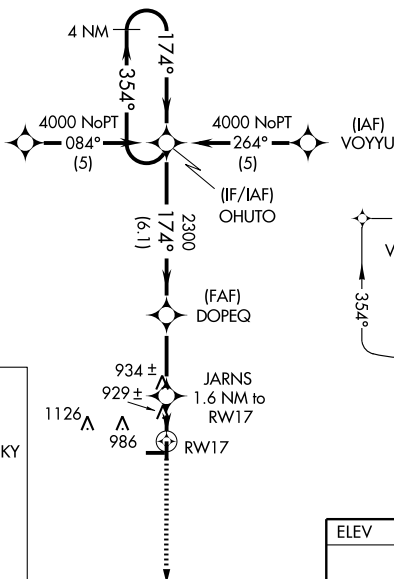
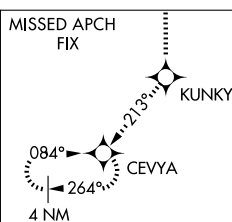
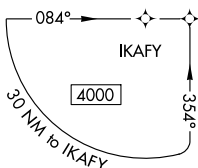
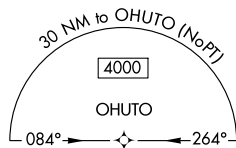
**NA** For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.6°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Grand Forks Intl altimeter setting and increase all DA 69 feet and all MDA 80 feet. Increase LPV and LNAV/VNAV all Cats and LNAV Cat C visibility ¼ mile. Baro-VNAV NA when using Grand Forks Intl altimeter setting.

**MISSED APPROACH:** Climb to 4000 direct KUNKY and on track 213° to CEVYA and hold, continue climb-in-hold to 4000.

AWOS-3  
**118.625**

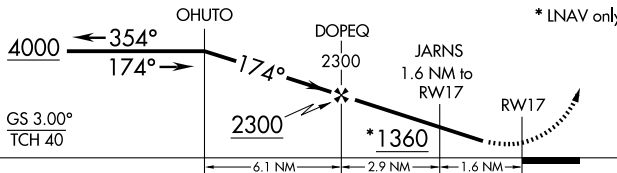
GRAND FORKS APP CON  
**118.1 318.1**

UNICOM  
**122.8 (CTAF) 0**

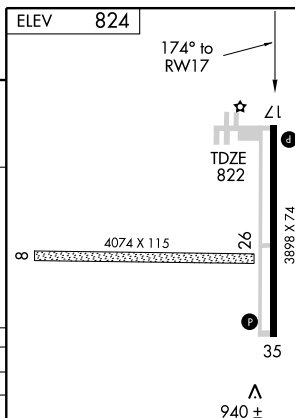


VGSI and RNAV glidepath not coincident.

4 NM  
Holding Pattern



CATEGORY	A	B	C	D
LPV DA	1072-1	250 (300-1)		NA
LNAV/VNAV DA	1228-1½	406 (500-1½)		NA
LNAV MDA	1200-1	378 (400-1)		NA
CIRCLING	1340-1	516 (600-1)	1340-1½ 516 (600-1½)	NA



MIRL Rwy 17-35 0

WAAS CH <b>82518</b> <b>W35A</b>	APP CRS <b>354°</b>	Rwy Idg TDZE Apt Elev	<b>3898</b> <b>822</b> <b>824</b>
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**RNAV (GPS) RWY 35**

GRAFTON/ HUTSON FIELD (GAF)

**⚠** For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Grand Forks Intl altimeter setting and increase all DA 69 ft and all MDA 80 ft. Increase LPV and LNAV/VNAV all Cats and LNAV Cat C visibility ¼ mile. Baro-VNAV NA when using Grand Forks Intl altimeter setting.

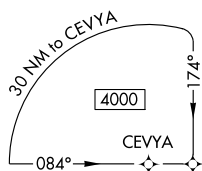
**MISSED APPROACH:** Climb to 4000 direct OHUTO and hold, continue climb-in-hold to 4000.

AWOS-3  
**118.625**

GRAND FORKS APP CON  
**118.1 318.1**

UNICOM  
**122.8 (CTAF)**

1393  
△



(IAF)  
CEVYA

1126 △ 986 △  
RW35  
SAZVE  
1.6 NM to RW35

(FAF)  
KUNKY

2400

354°

(6.1)

4000 NoPT

(5)

084°

(IF/IAF)  
NANOH

354°

174°

4 NM

084°

264°

NANOH

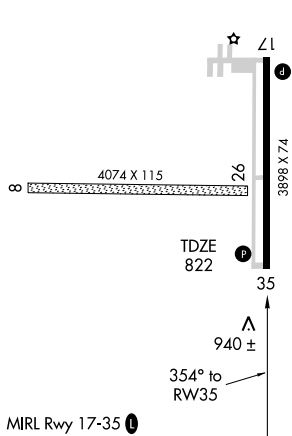
4000

30 NM to NANOH (NoPT)

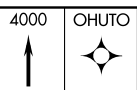
MISSED APCH FIX



ELEV 824

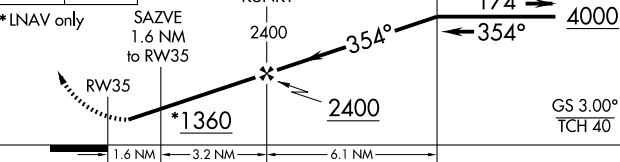


MIRL Rwy 17-35



VGSI and RNAV glidepath not coincident.

4 NM Holding Pattern



CATEGORY	A	B	C	D
LPV DA	1072-1	250 (300-1)		NA
LNAV/VNAV DA	1199-1¼	377 (400-1¼)		NA
LNAV MDA	1180-1	358 (400-1)		NA
CIRCLING	1340-1	516 (600-1)	1340-1½ 516 (600-1½)	NA



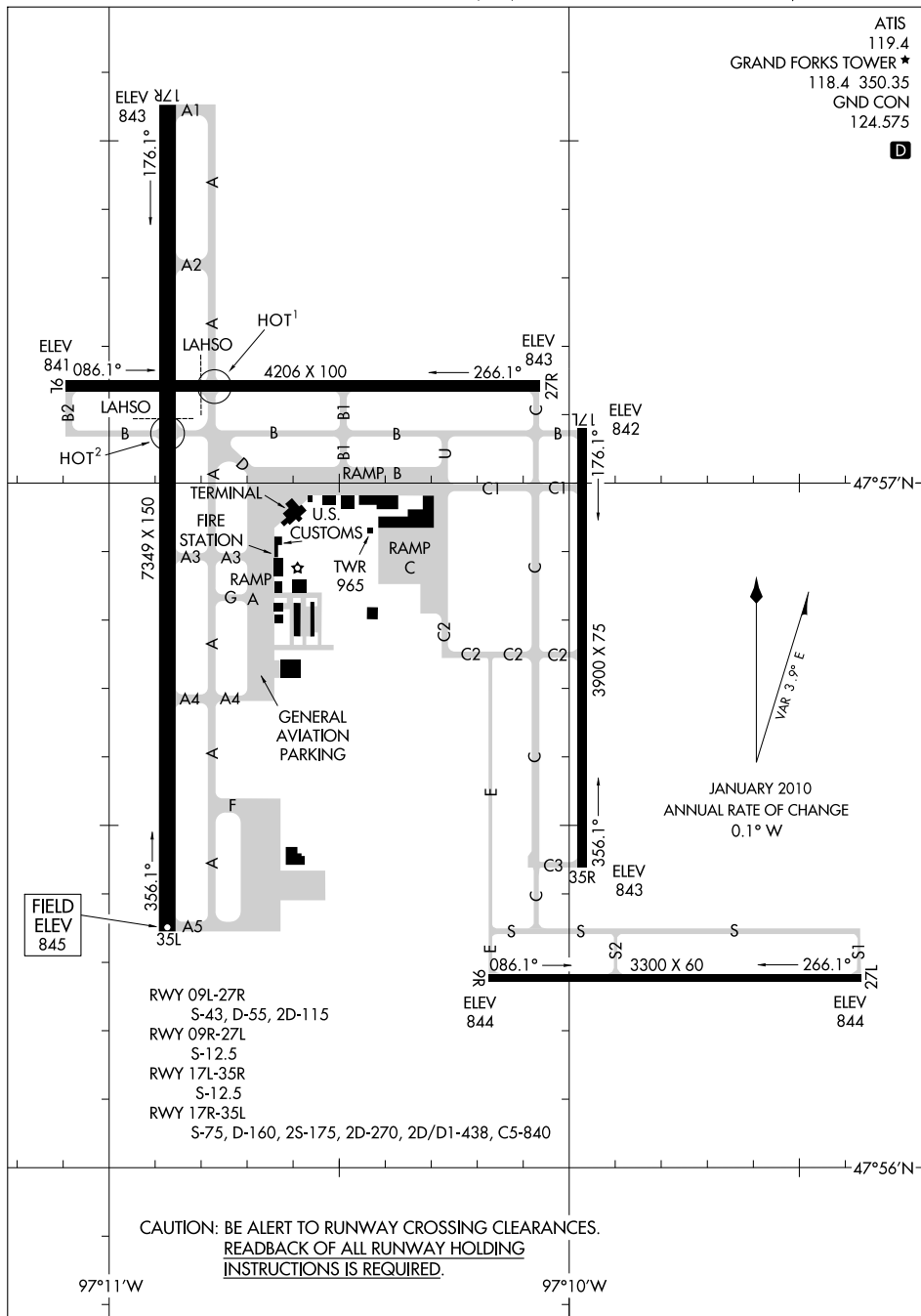
## AIRPORT DIAGRAM

AL-5187 (FAA)

GRAND FORKS INTL (GFK)

GRAND FORKS, NORTH DAKOTA

NC-1, 26 AUG 2010 to 23 SEP 2010



NC-1, 26 AUG 2010 to 23 SEP 2010

## AIRPORT DIAGRAM

GRAND FORKS, NORTH DAKOTA

GRAND FORKS INTL (GFK)

**GRAND FORKS INTL** (GFK) 5 NW UTC-6(-5DT) N47°56.84' W97°10.43'

TWIN CITIES

845 B S4 FUEL 100LL, JET A OX 3 TPA—See Remarks LRA Class I, ARFF Index B

H-2H, L-14G

NOTAM FILE GFK

IAP, AD

RWY 17R-35L: H7349X150 (ASPH-GRVD) S-75, D-160, 2S-175,

2D-270, 2D/2D1-438, C5-840 HIRL

RWY 17R: REIL. PAPI(P4L)—GA 3.0° TCH 53'. Rgt ttc.

RWY 35L: MALSR. PAPI(P4L)—GA 2.76° TCH 61'.

RWY 09L-27R: H4206X100 (CONC) S-43, D-55, 2D-115 MIRL

RWY 09L: PAPI(P4L)—GA 3.0° TCH 39'.

RWY 27R: REIL. VASI(V4L)—GA 3.0° TCH 45'. Rgt ttc.

RWY 17L-35R: H3900X75 (CONC) S-12.5 MIRL

RWY 17L: PAPI(P4L)—GA 3.0° TCH 21'.

RWY 35R: PAPI(P4L)—GA 3.0° TCH 21'. Rgt ttc.

RWY 09R-27L: H3300X60 (CONC) S-12.5 MIRL

RWY 09R: PAPI(P2L)—GA 3.0° TCH 21'. Rgt ttc.

RWY 27L: PAPI(P2L)—GA 3.0° TCH 21'.

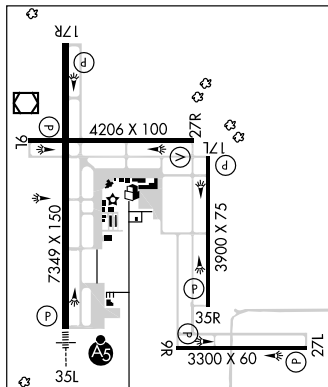
**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 27R	17R-35L	3000
RWY 35L	09L-27R	4600

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 09L: TORA-4206 TODA-4206 ASDA-4206 LDA-4206

RWY 27R: TORA-4206 TODA-4206 ASDA-4206 LDA-4206



**AIRPORT REMARKS:** Attended continuously. Birds on and in/ovf arpt. Heavy student training activity within 15 miles of airport. Heavy student helicopter training at arpt between parallel twys. PAEW 0530-1200Z±. ARFF Index B svc avbl 1100-0600Z±; other times PPR for air carrier operations with more than 30 passenger seats. Call arpt manager on 701-795-6984. When twr clsd snow removal equipment operators monitor CTAF. Customs avbl Mon-Fri 1900-0300Z±, other times on req 701-772-3301. Lgtd entrance road 1600' east of Rwy 17R-35L. Rwy 09R, Rwy 27L, Rwy 17L and Rwy 35R CLOSED when twr clsd. Rwy 9R, Rwy 27L, Rwy 17L, Rwy 35R, and Twy C, Twy E, and Twy S not avbl for air carrier with more than 30 passenger seats. Western most 100 ft of Twy C1 is an extension of the Bravo apron and not visible from the twr. Twy G and Twy U clsd to fixed wing acft 12,500 lbs and over. TPA 1645(800) for light aircraft and 2345(1500) for large aircraft. ACTIVATE REIL Rwy 27R and Rwy 17R—CTAF. When twr clsd ACTIVATE HIRL Rwy 17R-35L, and MALSR Rwy 35L, MIRL Rwy 09L-27R—CTAF. VASI Rwy 27R, PAPI Rwy 17R, Rwy 35L, Rwy 17L, Rwy 35R, Rwy 09R, Rwy 09L and Rwy 27L opr continuously. Flight Notification Service (ADCUS) available.

**WEATHER DATA SOURCES:** ASOS (701) 772-3486. HIWAS 114.3 GFK.**COMMUNICATIONS:** CTAF 118.4 ATIS 119.4 UNICOM 122.95

RCO 122.6 122.2 (GRAND FORKS RADIO)

R APP/DEP CON 118.1

TOWER 118.4 120.55 (1200-0530Z±) GND CON 124.575

**AIRSPACE:** CLASS D svc 1200-0530Z± other times CLASS E.**RADIO AIDS TO NAVIGATION:** NOTAM FILE GFK.

(H) VORW/DME 114.3 GFK Chan 90 N47°57.29' W97°11.12' at fld. 841/9E. HIWAS.

HISER NDB (LOM) 345 GF N47°50.78' W97°10.89' 356° 6.2NM to fld.

ILS/DME 109.1 I-GFK Chan 28 Rwy 35L. Class IC. LOM HISER NDB. ILS/DME unmonitored when twr clsd. LOC unusable byd 25° left and right of course.

**COMM/NAV/WEATHER REMARKS:** Freq 121.5 not available at twr. Weather available on ATIS when twr closed. CTC Grand Forks radio for arpt advisory svc on 118.4 when twr is clsd.**GRENNORA CENTENNIAL** (7N6) 1 NE UTC-7(-6DT) N48°37.53' W103°55.80'

TWIN CITIES

2145 NOTAM FILE GFK

RWY 17-35: 2600X100 (TURF)

RWY 17: P-line.

**AIRPORT REMARKS:** Unattended. Arpt CLOSED winter months. No snow removal, confirm rwy condition phone 701-694-3391. Rwy 17-35 violates 5' rwy visibility clearance. -5' pond 50' from Rwy 17 thld. Rwy 17-35 dalgt markers on four corners and edges with black/white cones.

**COMMUNICATIONS:** CTAF 122.9

LOC/DME I-GFK <b>109.1</b> Chan <b>28</b>	APP CRS <b>354°</b>	Rwy Idg TDZE Apt Elev	<b>7349</b> <b>845</b> <b>845</b>
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# ILS or LOC RWY 35L

## GRAND FORKS INTL (GFK)

**T** If local altimeter setting not received, use Crookston altimeter setting and increase all DAs/MDAs 80 feet. Procedure turn NA for Cat. E aircraft. VDP NA with Crookston altimeter setting.  
For inoperative MALSR, increase S-ILS Cat. E visibility to 1.



**MISSED APPROACH:**  
Climb to 3600 then right turn direct GFK VOR/DME and hold.

ATIS  
**119.4**

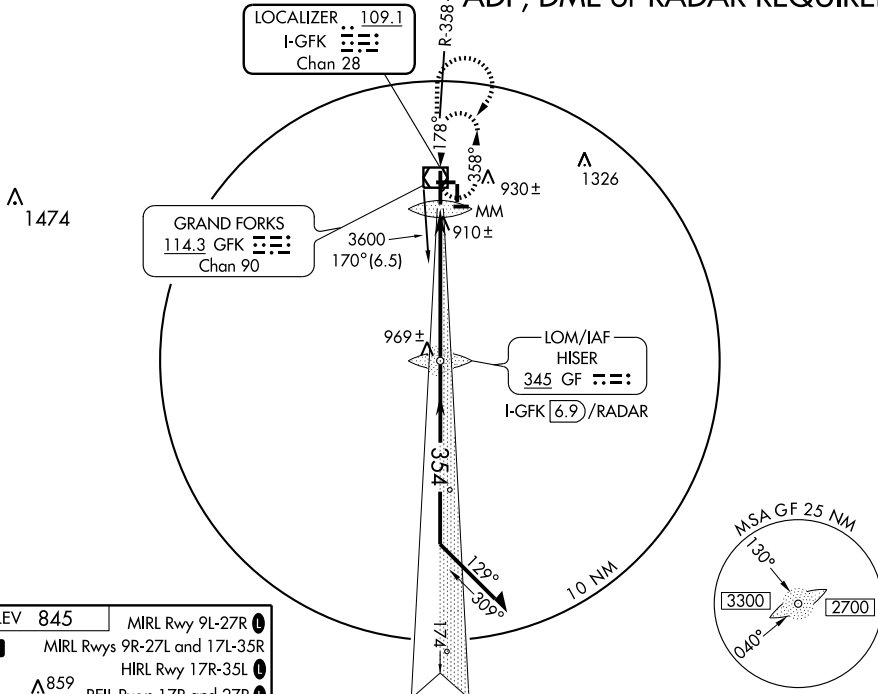
GRAND FORKS APP CON  
**118.1 318.1**

GRAND FORKS TOWER\*  
**118.4 (CTAF) 120.55 350.35**

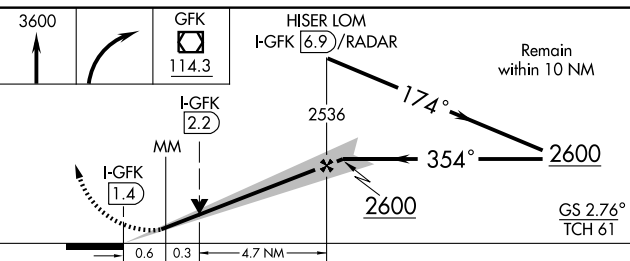
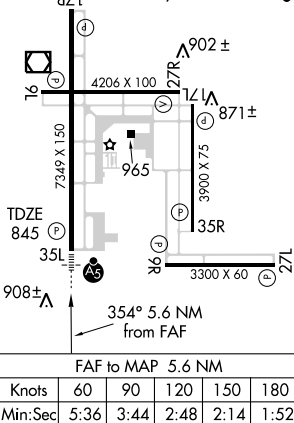
GND CON  
**124.575**

UNICOM  
**122.95**

**ADF, DME or RADAR REQUIRED**



ELEV <b>845</b>	MIRL Rwy 9L-27R
<b>D</b>	MIRL Rwy 9R-27L and 17L-35R
	HIRL Rwy 17R-35L
	REIL Rwy 17R and 27R



CATEGORY	A	B	C	D	E
S-ILS 35L	1045-½ 200 (200-½)				
S-LOC 35L	1160-½ 315 (400-½)			1160-¾ 315 (400-¾)	
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1¼ 455 (500-1¼)	1400-2 555 (600-2)	1520-2½ 675 (700-2½)

GRAND FORKS, NORTH DAKOTA

Amdt 12 10042

47°57'N - 97°10'W

# GRAND FORKS INTL (GFK)

## ILS or LOC RWY 35L



WAAS CH <b>58104</b> <b>W09A</b>	APP CRS <b>084°</b>	Rwy Idg <b>4206</b> TDZE <b>843</b> Apt Elev <b>845</b>
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## RNAV (GPS) RWY 9L

GRAND FORKS INTL (GFK)

**T** For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F).

**A** DME/DME RNP- 0.3 NA.

When local altimeter setting not received, use Crockston altimeter setting and increase all DA 62 feet and all MDA 80 feet, increase LNAV/VNAV all CATs and LNAV Cat C/D visibilities  $\frac{1}{4}$  mile.

Baro-VNAV and VDP NA when using Crockston altimeter setting.

**MISSED APPROACH:** Climb to 2800 direct  
URBAH and hold.

ATIS  
119.4

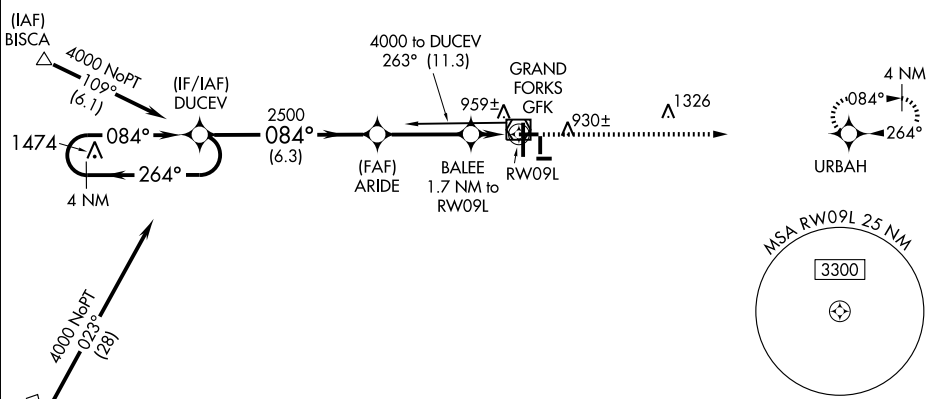
GRAND FORKS APP CON  
118.1 318.1

GRAND FORKS TOWER★  
118.4 (CTAF) 120.55 350.35

GND CON  
124.575

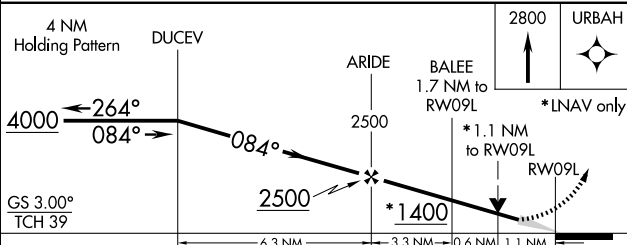
UNICOM  
122.95

### Procedure NA for arrivals at GFK VOR/DME via V55 northeast bound.

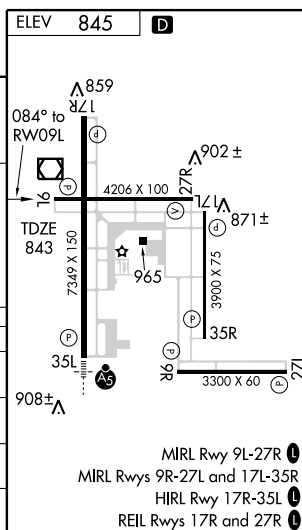


NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1. 26 AUG 2010 to 23 SEP 2010



CATEGORY	A	B	C	D
LPV DA	1093-1 250 (300-1)			
LNAV/VNAV DA	1238-1½ 395 (400-1½)			
LNAV MDA	1220-1 377 (400-1)			1220-1¼ 377 (400-1¼)
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1½ 455 (500-1½)	1400-2 555 (600-2)



GRAND FORKS, NORTH DAKOTA

Amdt 1 10042

47°57'N- 97°10'W

GRAND FORKS INTL (GFK)

## RNAV (GPS) RWY 9L

WAAS CH <b>63199</b> <b>W17A</b>	APP CRS <b>174°</b>	Rwy Idg TDZE Apt Elev <b>7349</b> <b>843</b> <b>845</b>
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# RNAV (GPS) RWY 17R

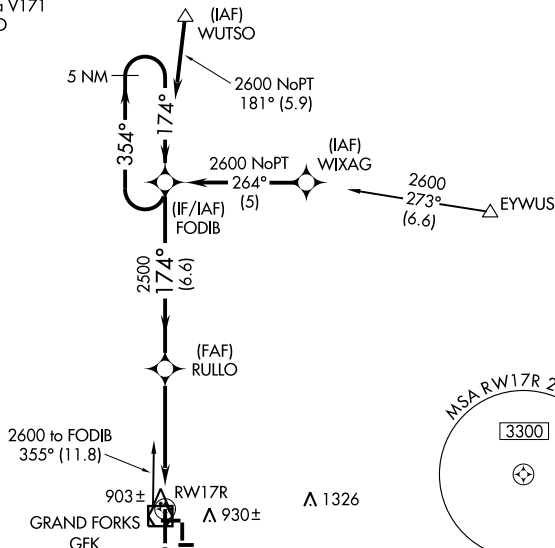
GRAND FORKS INTL (GFK)

- ▼** DME/DME RNP -0.3 NA. When local altimeter setting not received, use Crockston altimeter setting and increase all DA/MDA 80 feet and increase LPV and LNAV/VNAV all Cats visibility ¼ mile and LNAV Cats C and D visibility ½ mile. Baro-VNAV NA with Crockston altimeter setting. VDP NA with Crockston altimeter setting. Baro-VNAV NA below -16°C (5°F).
- ▲**

MISSED APPROACH: Climb to 2600 direct ERIXE and hold.

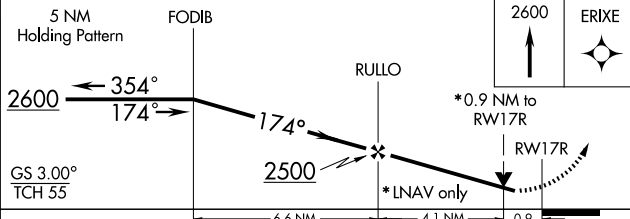
ATIS <b>119.4</b>	GRAND FORKS APP CON <b>118.1 318.1</b>	GRAND FORKS TOWER* <b>118.4 (CTAF) 120.55 350.35</b>	GND CON <b>124.575</b>	UNICOM <b>122.95</b>
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Procedure NA for arrivals at EYWUS via V171 northeast bound, and arrivals at WUTSO via V181 northbound.

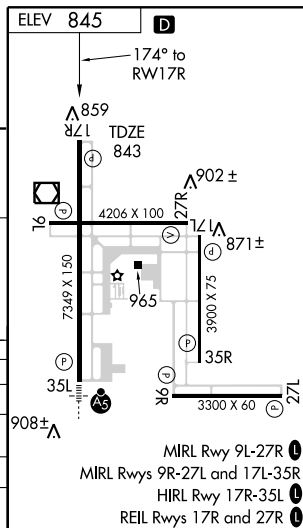


▲ 1474

MISSED APCH FIX



CATEGORY	A	B	C	D
LPV DA	1107-1	264 (300-1)		
LNAV/VNAV DA	1157-1	314 (400-1)		
LNAV MDA	1180-1	337 (400-1)		
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1½ 455 (500-1½)	1400-2 555 (600-2)



GRAND FORKS, NORTH DAKOTA

Orig-B 26AUG10

47°57'N- 97°10'W

GRAND FORKS INTL (GFK)  
**RNAV (GPS) RWY 17R**

MIRL Rwy 9L-27R  
MIRL Rwy 9R-27L and 17L-35R  
HIRL Rwy 17R-35L  
REIL Rwy 17R and 27R

## RNAV (GPS) RWY 27R

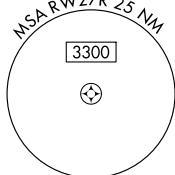
GRAND FORKS INTL (GFK)

WAAS CH <b>78104</b> <b>W27A</b>	APP CRS <b>264°</b>	Rwy Idg TDZE Apt Elev	<b>4206</b> <b>843</b> <b>845</b>
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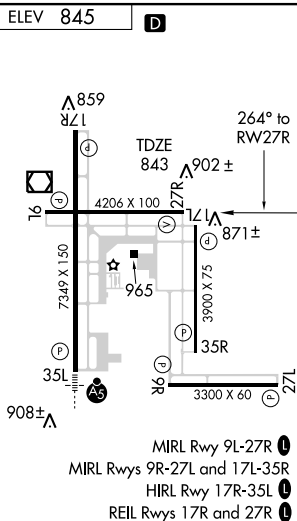
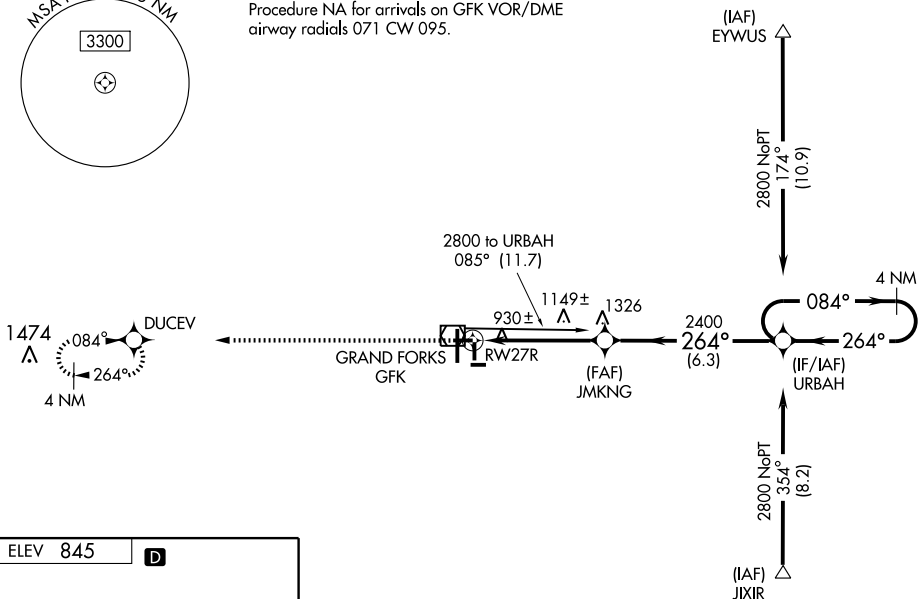
- ▼** DME/DME RNP-0.3 NA.  
**▲** Visibility reduction by helicopters NA.  
 When local altimeter setting not received, use Crockston  
 altimeter setting and increase all DA 62 feet and all MDA  
 80 feet.  
 Increase LNAV and Circling Cat C and D visibility ¼ mile.

MISSED APPROACH: Climb to 4000 direct DUCEV  
 and hold, continue climb-in-hold to 4000.

ATIS <b>119.4</b>	GRAND FORKS APP CON <b>118.1 318.1</b>	GRAND FORKS TOWER* <b>118.4 (CTAF) 120.55 350.35</b>	GND CON <b>124.575</b>	UNICOM <b>122.95</b>
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Procedure NA for arrivals on GFK VOR/DME  
 airway radials 071 CW 095.



ELEV 845 <b>D</b>		4000 DUCEV		URBAH 4 NM Holding Pattern	
RW27R		JMKNG 2400		URBAH 2800	
4.7 NM		6.3 NM		GS 3.00° TCH 45	
CATEGORY	A	B	C	D	
LPV DA	1093-1		250 (300-1)		
LNAV MDA	1460-1	617 (700-1)	1460-1 617 (700-1 3/4)	1460-2 617 (700-2)	
CIRCLING	1460-1	615 (700-1)	1460-1 615 (700-1 3/4)	1460-2 615 (700-2)	

GRAND FORKS, NORTH DAKOTA

Amdt 2 10042

47°57'N- 97°10'W

GRAND FORKS INTL (GFK)

RNAV (GPS) RWY 27R

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

WAAS CH <b>70313</b> <b>W35A</b>	APP CRS <b>354°</b>	Rwy Idg TDZE <b>845</b> Apt Elev <b>845</b>
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# RNAV (GPS) RWY 35L

GRAND FORKS INTL (GFK)

**⚠** DME/DME RNP-0.3 NA. Inoperative table does not apply to LNAV Cat D.  
**⚠** If local altimeter setting not received, use Crookston altimeter setting and increase all DAs/MDAs 80 feet.  
 VDP NA when using Crookston altimeter setting. Baro-VNAV NA below -16°C (4°F).  
 Baro-VNAV NA when using Crookston altimeter setting.  
 For inoperative MALSR increase LPV all Cats visibility to 1.



MISSED APPROACH: Climb to 2600 direct FODIB and hold.

ATIS <b>119.4</b>	GRAND FORKS APP CON <b>118.1 318.1</b>	GRAND FORKS TOWER* <b>118.4 (CTAF) 120.55 350.35</b>	GND CON <b>124.575</b>	UNICOM <b>122.95</b>
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Procedure NA for arrivals at GFK VOR/DME via airway radials 112 CW 234.

△ 1474

GRAND FORKS  
GFK

△ 1326

2600 to ERIXE  
173° (12.2)

RW35L  
910±

(FAF)  
JAGBI

2600  
354° (6)

(IAF)  
IGIME

2600 NoPT  
084° (5)

(IF/IAF)  
ERIXE

354°

5 NM

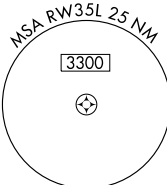
2600 NoPT  
328° (8.5)

(IAF)  
JOCOR

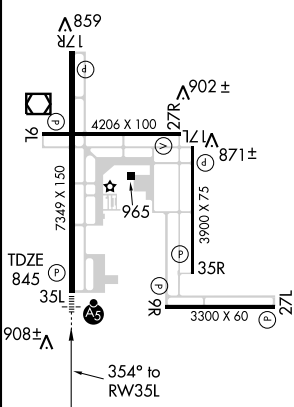
SHELS


2600  
306° (17.1)

MISSED APCH FIX



ELEV 845	MIRL Rwy 9L-27R
<b>D</b>	MIRL Rwys 9R-27L and 17L-35R
	HIRL Rwy 17R-35L
	REIL Rwys 17R and 27R



2600 ↑	FODIB 	VGSI and RNAV glidepath not coincident		5 NM Holding Pattern	
		JAGBI	ERIXE		
*LNAV only	*0.9 NM to RW35L				



VOR/DME GFK <b><u>114.3</u></b> Chan <b>90</b>	APP CRS <b>183°</b>	Rwy Idg <b>7349</b> TDZE <b>843</b> Apt Elev <b>845</b>
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VOR RWY 17R  
GRAND FORKS INTL (GFK)

- T** If local altimeter setting not received, use Crookston altimeter setting and increase all MDAs 80 feet.  
**A** VDP NA with Crookston altimeter setting.

**MISSED APPROACH:** Climb to 3600 via GFK R-170 then left turn direct GFK VOR/DME and hold.

ATIS  
119.4

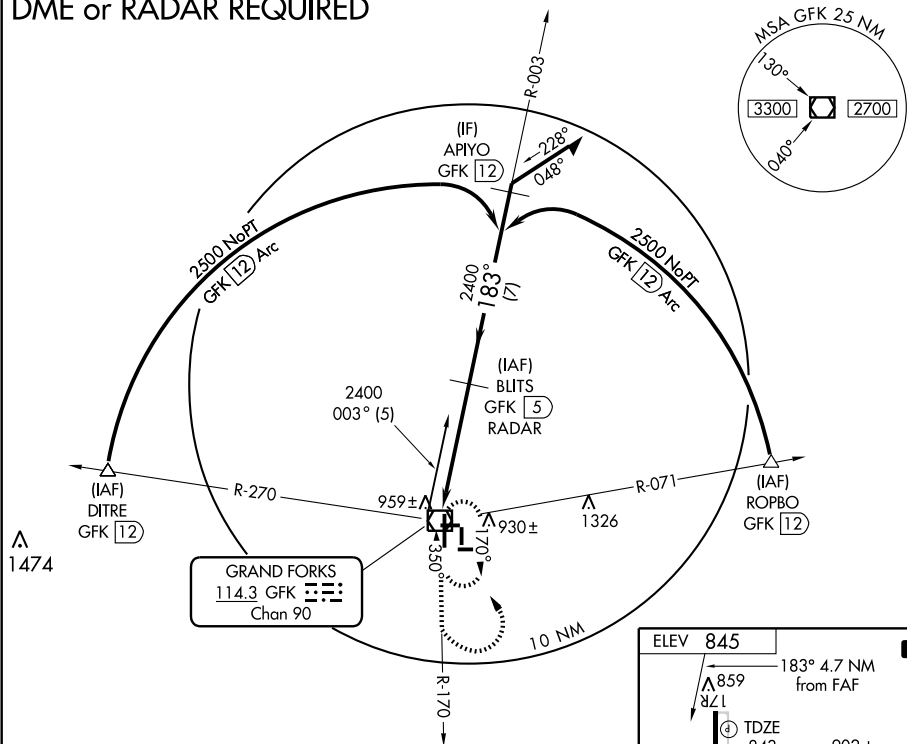
GRAND FORKS APP CON  
118.1 318.1

GRAND FORKS TOWER★  
118.4 (CTAF) 120.55 350.35

GND CON  
124.575



UNICOM  
122.95

DME or RADAR REQUIRED



NC-1. 26 AUG 2010 to 23 SEP 2010

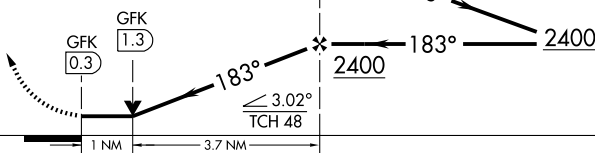
NC-1, 26 AUG 2010 to 23 SEP 2010

3600 ↑ GFK R-170		GFK  <u>114.3</u>
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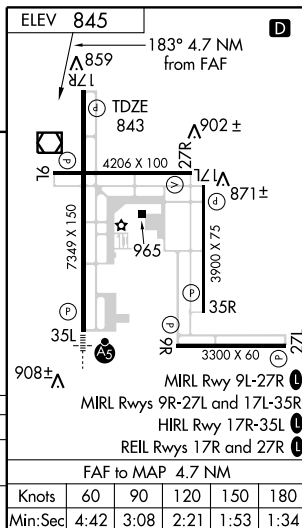
VGS| and descent angles not coincident.

BLITS  
GFK 5 / RADAR

within 10 NM



CATEGORY	A	B	C	D
S-17R	1220-1 377 (400-1)			1220-1¼ 377 [400-1¼]
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1½ 455 (500-1½)	1400-2 555 (600-2)



GRAND FORKS, NORTH DAKOTA

Amdt 6A 10042

GRAND FORKS INTL (GFK)

VOR RWY 17R

47°57'N - 97°10'W

VOR/DME GFK  
**114.3**  
Chan **90**

APP CRS  
**344°**

Rwy Idg  
TDZE  
Apt Elev  
**7349**  
**845**  
**845**

# VOR RWY 35L

## GRAND FORKS INTL (GFK)

**V** If local altimeter setting not received use Crookston altimeter setting and increase, all MDAs 80 feet.  
**A** ELVAW FIX MINIMUMS: For inoperative MALSR, increase S-35L, Cat D visibility to 1 ¼ mile.

MALSR



MISSED APPROACH: Climb to 1300 then climb to 3600 via GFK R-360 then right turn direct GFK VOR/DME and hold.

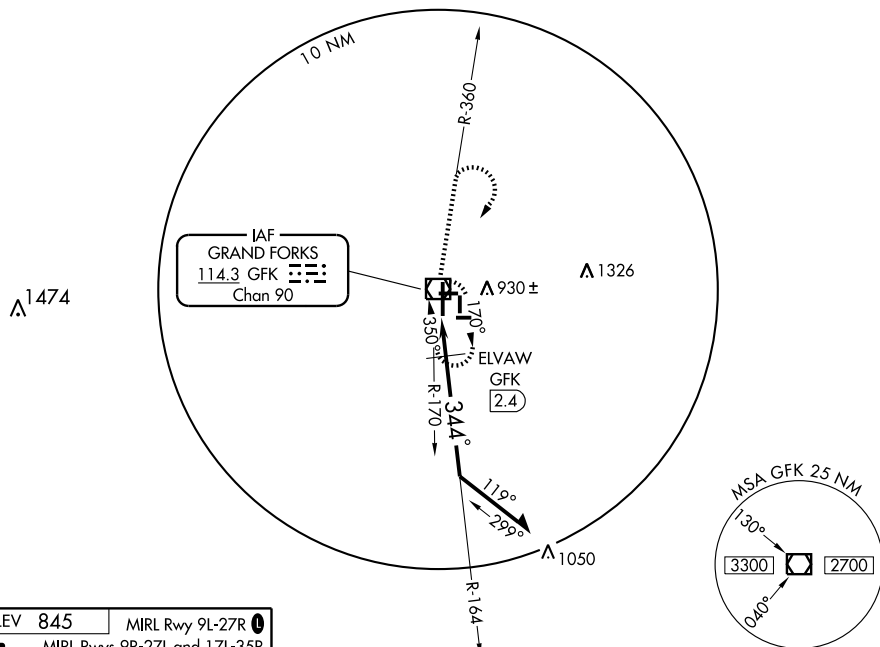
ATIS  
**119.4**

GRAND FORKS APP CON  
**118.1 318.1**

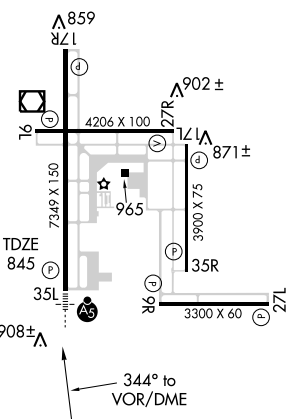
GRAND FORKS TOWER\*  
**118.4 (CTAF) 120.55 350.35**

GND CON  
**124.575**

UNICOM  
**122.95**



ELEV **845** MRL Rwy 9L-27R **1**  
MIRL Rwys 9R-27L and 17L-35R **1**  
HIRL Rwy 17R-35L **1**  
REIL Rwys 17R and 27R **1**

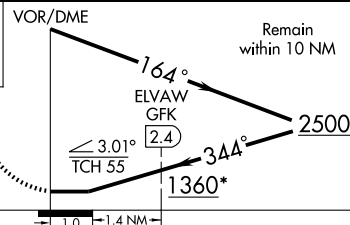


1300 3600  
GFK R-360

GFK  
**114.3**

VGS and descent angles not coincident

\*1440 when using Crookston altimeter setting.



CATEGORY	A	B	C	D
S-35L	1360-½	515 (600-½)	1360-1 515 (600-1)	1360-1¼ 515 (600-1¼)
CIRCLING	1360-1	515 (600-1)	1360-1½ 515 (600-1½)	1400-2 555 (600-2)
ELVAW FIX MINIMUMS				
S-35L	1220-½ 375 (400-½)			1220-1 375 (400-1)
CIRCLING	1280-1 435 (500-1)	1300-1 455 (500-1)	1300-1¼ 455 (500-1¼)	1400-2 555 (600-2)

## AIRPORT DIAGRAM

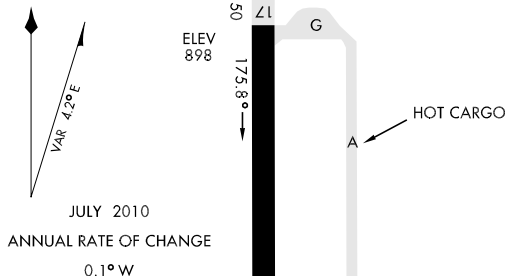
AFD-5010 [USAF]

GRAND FORKS AFB (KRDR)

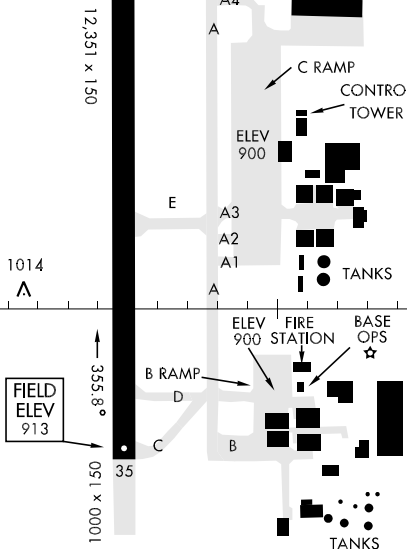
GRAND FORKS, NORTH DAKOTA

ATIS ★  
273.45  
RED RIVER TOWER  
124.9 349.0  
GND CON  
119.15 275.8  
CLNC DEL  
119.15 360.7

47° 59'N



47° 58'N



47° 57'N

A 1053

Rwy 17-35  
PCN 139 R/A/W/T

97° 25'W

97° 25'W

97° 23'W

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

## AIRPORT DIAGRAM

GRAND FORKS, NORTH DAKOTA

GRAND FORKS AFB (KRDR)

**GRAND FORKS AFB** (RDR)(KRDR) AF 13 W UTC-6(-5DT) N47°57.68' W97°24.05' **TWIN CITIES**  
 913 B TPA—See Remarks NOTAM FILE GFK Not insp. **H-2H, L-14G**  
**RWY 17-35:** H12350X150 (ASPH) PCN 139 R/A/W/T HIRL **DIAP, AD**

**RWY 17:** ALSF1. PAPI(P4L)—GA 2.6". Rgt tfc. **RWY 35:** ALSF1. PAPI(P4L)—GA 2.6".

**MILITARY SERVICE:** JASU (AM32A-86) (AM32-95) **FUEL J8 FLUID SP PRESAIR LH0X OIL** Oil avbl in package product only, hand transfer rqr. 0-133-148 **TRAN ALERT** No fuel svc will begin after 0415Z± weekday.

**MILITARY REMARKS:** Opr 1200-0500Z±, PPR clsd Sat-Sun and holidays. After hr request must have approval of 319 OG/CC. **RSTD** All inbound passenger/cargo acft must ctc Comd Post no later than 30 min prior to ldg. Acft with dangerous materials ctc PTD 30 min prior to ETA. All acft ops except civilian air carriers are subject to restrictions and potential delays during BASH Phase II, Sep thru Nov, Mar thru May and other times as determined by the current Bird Watch condition (BWC). BWC MODERATE procedures are in effect during the Phase II BASH windows (1 hr prior to 1 hr after sunrise and 1 hr prior to 1 hr after sunset). When the BWC is moderate or greater. No IFR/VFR tfc pattern activity is permitted and any tkfs or lldgs rqr OG/CC approval. Airborne acft will ctc twr or afld OPS for the current BWC and OG/CC thru command post (Nordic control 311.0) during periods of BWC MODERATE for waiver authority in order to tkf or land. Transient aircrews who remain overnight, fax crew orders to Command Post DSN 362-6894 prior to arrival. North exit of Charlie ramp rstd to acft with wingspans of 195' or less. Horseshoe clsd. Require 3 hr callout if customs is required. **CAUTION** Uncontrolled vehicle tfc on twy and ramps. UAV ops within 11 DME half circle RDR R-180 thru RDR R-360 W of Grand Forks AFB, sfc to FL180. **TFC PAT** TPA—Overhead 2400(1487), rectangular 1900(987). VFR overhead and rectangular tfc pattern rgt hand Rwy 17. Transient VFR acft inbound to the overhead pattern proceed to initial at or abv 3200'.

**MISC** First/last 1,100' of Rwy 17-35 is concrete. Middle 10,150' of Rwy 17-35 is asphalt. Acft with VHF radio equipment only may ctc Base OPS thru ATC. No hangar space. Base OPS DSN 362-4409, C701-747-4409. All acft with Distinguished Visitors on board ctc Comn Post 60 NM prior ldg. Twy and ramps have significant foreign object damage potential. Weather info avbl ctc DSN 362-4396. Acft remaining overnight ctc Comd Post 24 hrs prior notice DSN 362-6871, for billeting. Wx svc avbl Mon-Fri 1200-0500Z±, clsd Sat-Sun. Combat Weather Flight DSN 362-4396, C701-747-4396. Building obstruction may impact prevailing visibility 010°-220°. ATC will enhance surface observation when twr visibility is less than 4 SM and different than reported visibility. During evacuation of combat weather squadron ctc 15 Operational Weather Flight at number below. Remote briefing svc avbl from 15 Operational Weather Squadron, Scott AFB DSN 576-9755, C618-256-9755.

**COMMUNICATIONS:** SFA D-ATIS 273.45 PTD 372.2  
 RCO 122.2 122.6 255.4 (GRAND FORKS RADIO)  
 (R) APP/DEP CON 118.1 318.1  
 RED RIVER TOWER 124.9 349.0 (Mon-Fri 1200-0500Z±, clsd Sat, Sun and hol.) **GN D CON** 119.15 275.8 **CLNC**  
 DEL 119.15 360.7  
 COMD POST 311.0 321.0 **PMSV METRO** 343.5

**AIRSPACE:** CLASS D svc Mon-Fri 1200-0500Z± clsd Sat, Sun and holidays.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE GFK.

**GRAND FORKS (H) VORW/DME** 114.3 GFK Chan 90 N47°57.29' W97°11.12' 264° 8.7 NM to fld. 841/9E.  
**HIWAS**

**RED RIVER (H) TACAN** Chan 111 RDR (116.4) N47°57.43' W97°24.35' at fld. 951/6E. No NOTAM MP Fri 1200-1500Z±.

**ILS** 111.3 I-AVA Rwy 17. No NOTAM MP Mon-Tue 1300-1530Z±.  
**ILS** 109.9 I-RDR Rwy 35. Class IE. No NOTAM MP Mon-Tue 1300-1530Z±.

**ASR** No Notam MP Mon-Fri 1000-1200Z±.

LOC I-AVA  
**111.3**

APCH CR  
174°

Rwy Idg	12,351
THRE	898
Arpt Elev	913

JAL-5010 [USAF]

GRAND FORKS AFB (KRDR)

\* When ALS inop, increase CAT CDE RVR to 40 and vis to  $\frac{3}{4}$  mile.

\*\* When ALS inop, increase CAT CDE RVR to 55 and vis to 1 mile.

\*\*\* Circling E of Rwy 17-35 not authorized.

ALSF-1



MISSED APPROACH: Climb to 3000 on  
RDR TACAN R-179 to DUMBE and hold

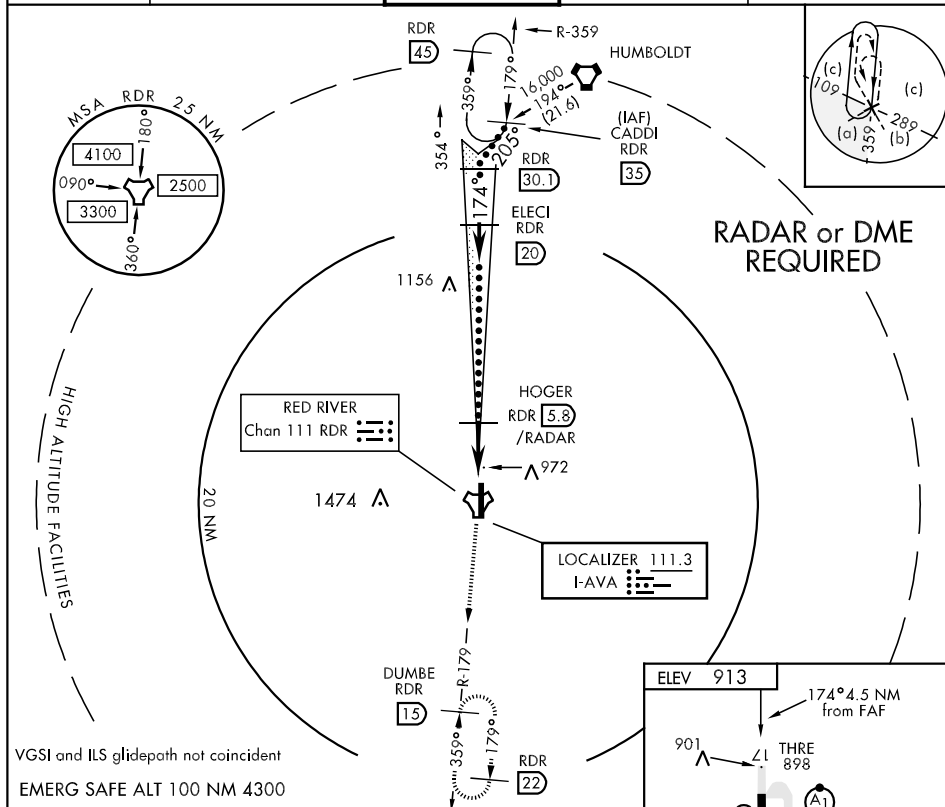
ATIS ★  
273.45

GRAND FORKS APP CON  
118.1 318.1

RED RIVER TOWER  
124.9 349.0

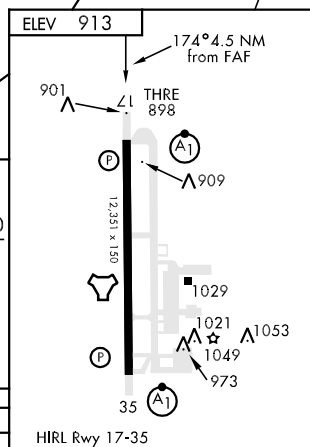
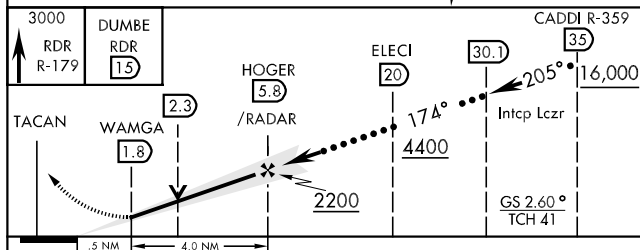
GND CON  
119.15 275.8

CLNC DEL  
119.15 360.7



### VGS1 and ILS alidepath not coincident

EMERG SAFE ALT 100 NM 4300



CATEGORY	C	D	E
S-115 17 *	1102/24	204	(200÷½)
S-10C 17 **	1240/30	342	(400÷¾)
CIRCLING***	1380-1½ 467 (500-1½)	1480-2 567 (600-2)	2040-3 1127 (1200-3)

FAF to MAP 4.0 NM					
Knots	120	140	160	180	200
Min:Sec	2:00	1:43	1:30	1:20	1:12

GRAND FORKS, NORTH DAKOTA

47°58'N-97°24'W

GRAND FORKS AFB (KRDR)

Amdt 1 10210

HI-ILS or LOC RWY 17

LOC I-RDR  
109.9

APCH CR  
354°

Rwy Idg	12,351
THRE	913
Arpt Elev	913

JAL-5010 [USAF]

GRAND FORKS AFB (KRDR)

\* When ALS inop, increase CAT CDE RVR to 40 and vis to ¾ mile.

**\*\* When ALS inop, increase CAT CDE RVR to 60 and vis to 1 1/8 miles.**

\*\*\* Circling E of Rwy 17-35 not authorized.

ALSF-1



MISSED APPROACH: Climb to 3000 on  
RDR TACAN R-353 to FRISK and hold.

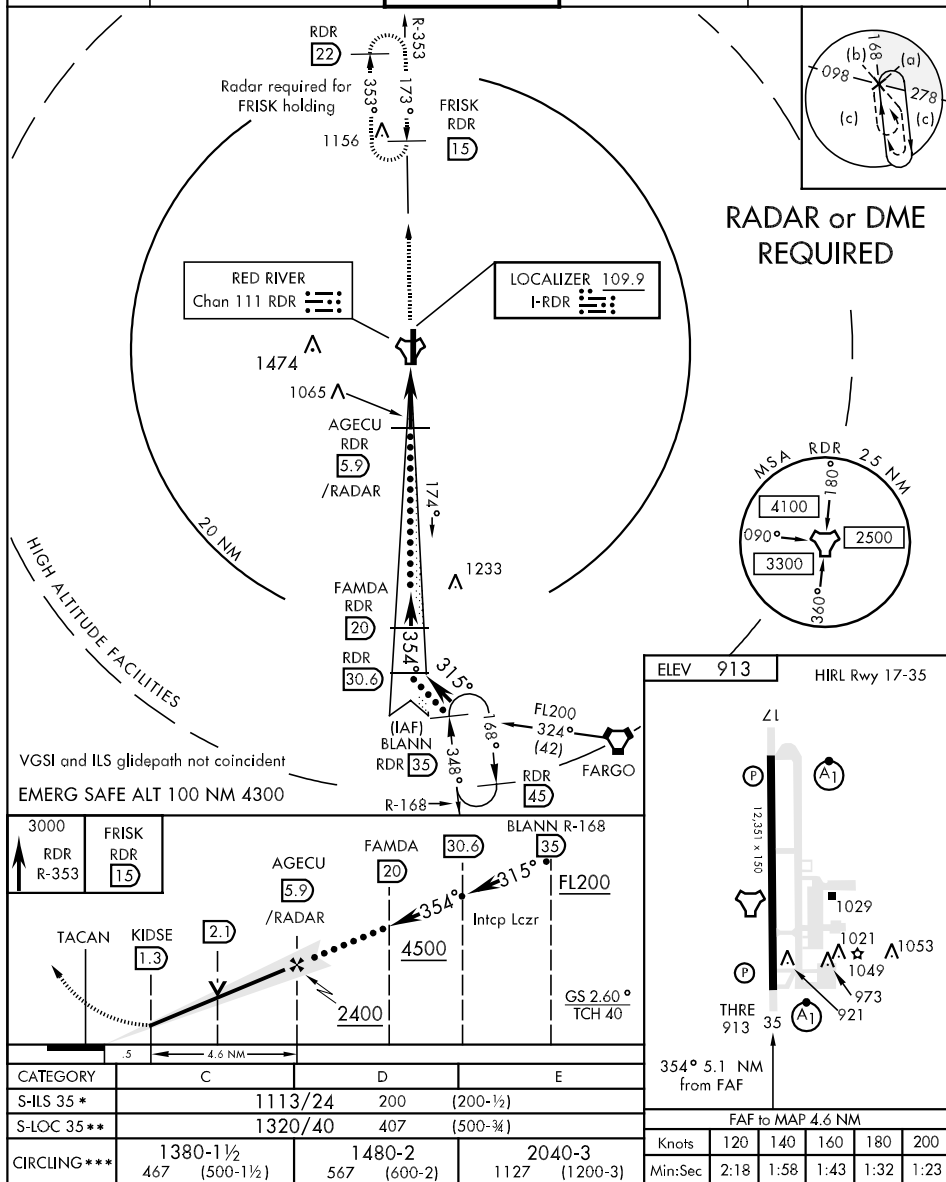
ATIS ★  
273.45

GRAND FORKS APP CON  
118.1 318.1

RED RIVER TOWER  
124.9 349.0

GND CON  
119.15 275.8

CLNC DEL  
119.15 360.7



GRAND FORKS, NORTH DAKOTA

Amdt 1 10210

47°58'N-97°24'W

GRAND FORKS AFB (KRDR)

HI-ILS or LOC RWY 35

TACAN RDR  
Chan **111**APCH CRS  
**179°**Rwy ldg **12,351**  
THRE **898**  
Arpt Elev **913**

JAL-5010 [USAF]

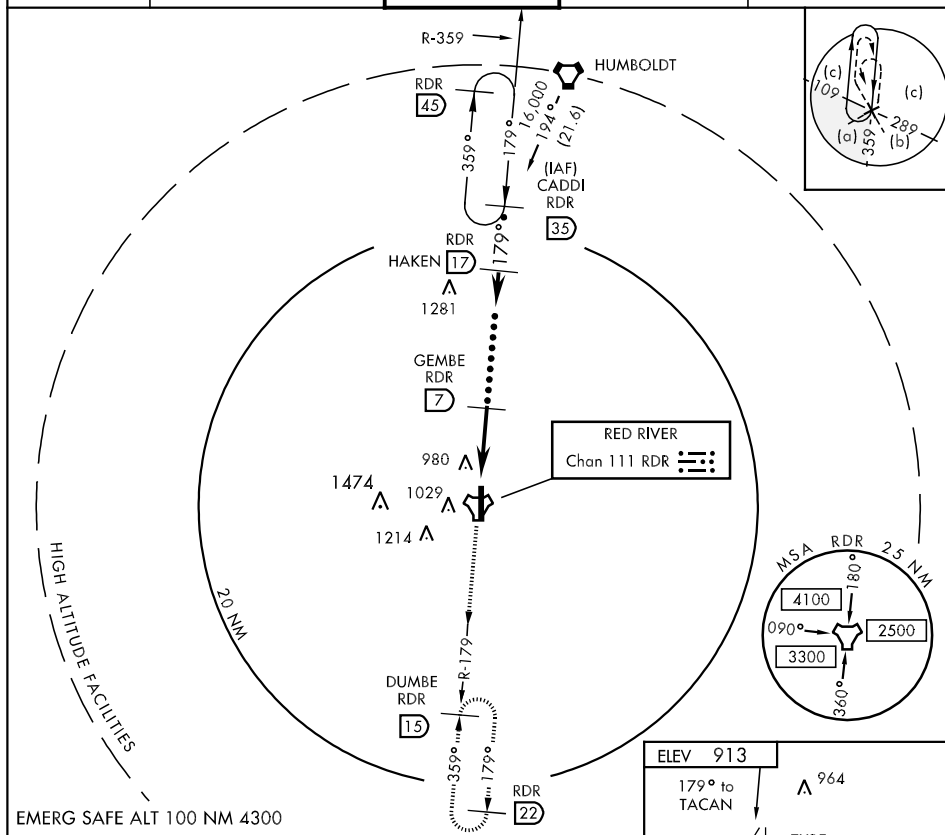
GRAND FORKS AFB (KRDR)

\* When ALS inop, increase CAT CDE RVR to 55 and vis to 1 mile.  
 \*\* Circling E of Rwy 17-35 not authorized.

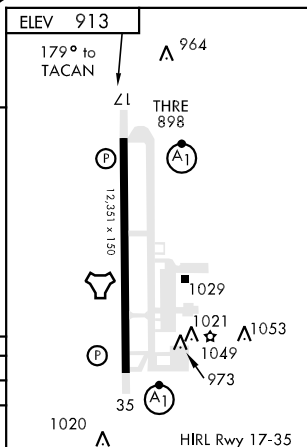
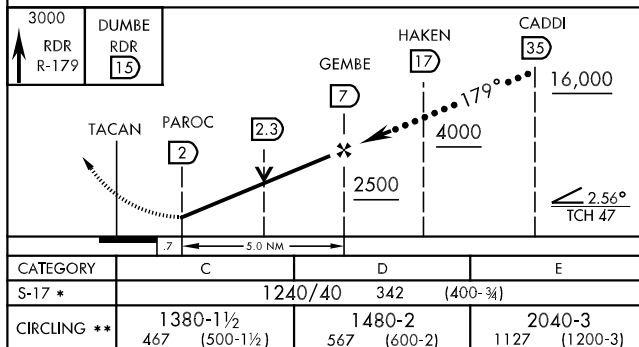
ALSF-1



MISSED APPROACH: Climb to 3000 on RDR TACAN R-179 to DUMBE and hold.

ATIS ★  
**273.45**GRAND FORKS APP CON  
**118.1 318.1**RED RIVER TOWER  
**124.9 349.0**GND CON  
**119.15 275.8**CLNC DEL  
**119.15 360.7**

EMERG SAFE ALT 100 NM 4300



GRAND FORKS, NORTH DAKOTA

47°58'N-97°24'W

GRAND FORKS AFB (KRDR)

Amdt 1 10210

TACAN RDR  
Chan **111**APCH CRS  
**348°**Rwy ldg **12,351**  
THRE **913**  
Arpt Elev **913**

JAL-5010 [USAF]

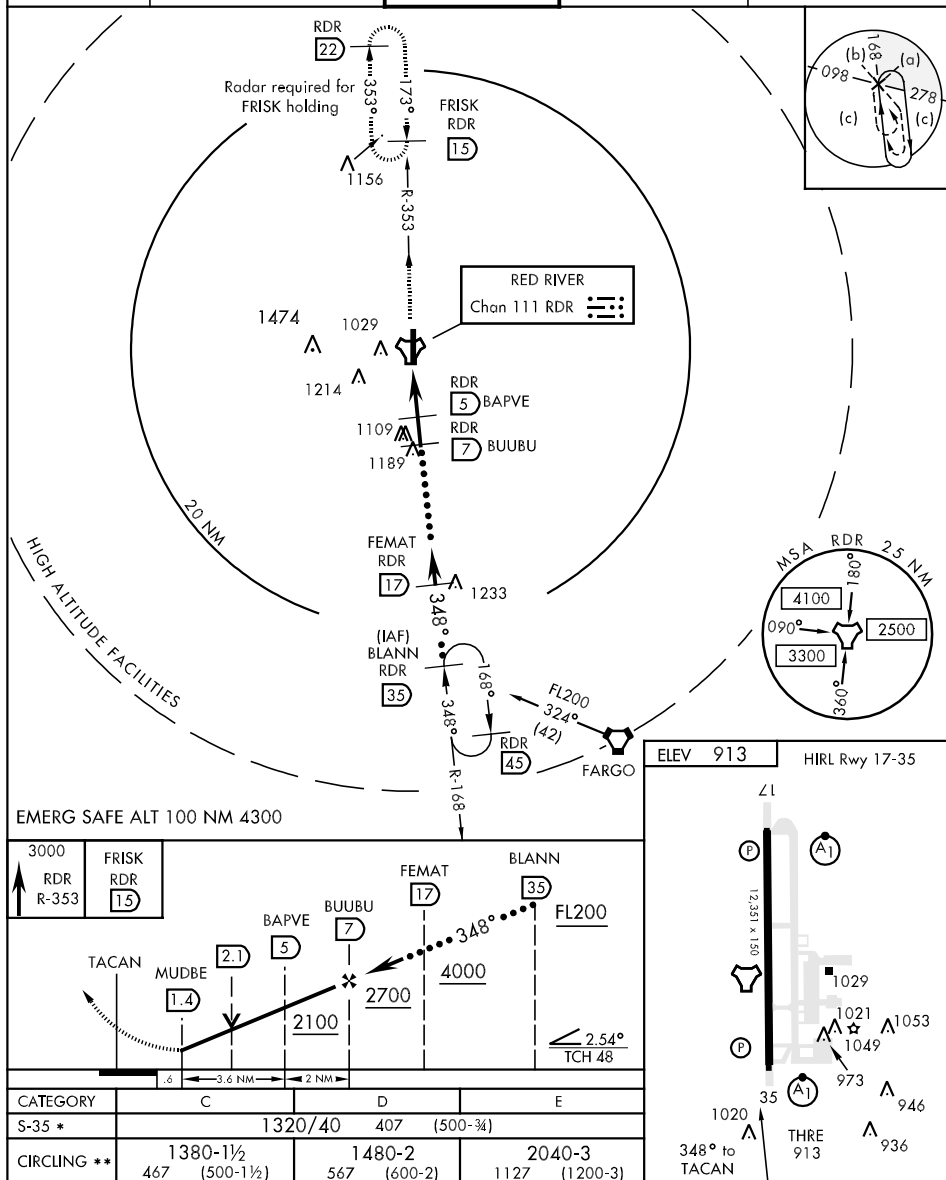
GRAND FORKS AFB (KRDR)

\* When ALS inop, increase CAT CDE

RVR to 60 and vis to 1½ miles.

\*\* Circling E of Rwy 17-35 not authorized.

ALSF-1

MISSED APPROACH: Climb to 3000 on  
RDR TACAN R-353 to FRISK and hold.ATIS ★  
**273.45**GRAND FORKS APP CON  
**118.1 318.1**RED RIVER TOWER  
**124.9 349.0**GND CON  
**119.15 275.8**CLNC DEL  
**119.15 360.7**

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010





LOC I-RDR <b>109.9</b>	APCH CRS <b>354°</b>	Rwy Idg THRE <b>913</b> Arpt Elev <b>913</b>
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AL-5010 [USAF]

GRAND FORKS AFB (KRDR)

- \* When ALS inop, increase RVR to 40 and vis to  $\frac{3}{4}$  mile.  
 \*\* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE RVR to 60 and vis to  $1\frac{1}{2}$  miles.



MISSED APPROACH: Climb to 3000 on RDR TACAN R-353 to FRISK and hold.

ATIS ★ <b>273.45</b>	GRAND FORKS APP CON <b>118.1 318.1</b>	RED RIVER TOWER <b>124.9 349.0</b>	GND CON <b>119.15 275.8</b>	CLNC DEL <b>119.15 360.7</b>
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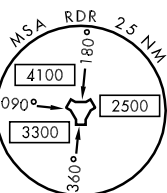
\*\*\* Circling E of Rwy 17-35 not authorized.

RDR  
**22**

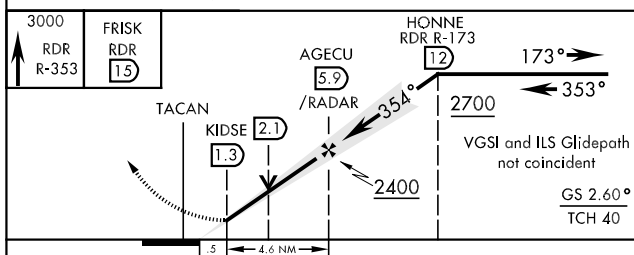
Radar required for FRISK holding

FRISK  
RDR  
**15**LOCALIZER 109.9  
I-RDRGRAND FORKS  
114.3 GFK  
Chan 90RADAR or DME  
REQUIRED(IAF)  
PARCR  
RDR  
**12**

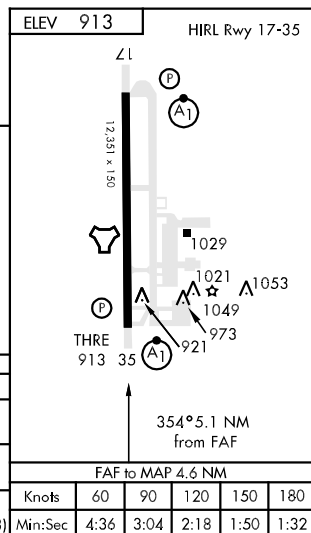
1474 A

RED RIVER  
Chan 111 RDRAGECU  
RDR  
**5.9**  
/RADAR(IAF)  
HONNE  
RDR  
R-173  
**12**Max holding  
265 KIAS

EMERG SAFE ALT 100 NM 4300



CATEGORY	A	B	C	D	E
S-ILS 35 *	1113/24		200	(200- $\frac{1}{2}$ )	
S-LOC 35 **	1320/24	407 (500- $\frac{1}{2}$ )	1320/40	407	(500- $\frac{3}{4}$ )
CIRCLING ***	1340-1 427 (500-1)	1380-1 467 (500-1)	1380-1 $\frac{1}{2}$ 467 (500-1 $\frac{1}{2}$ )	1480-2 567 (600-2)	2040-3 1127 (1200-3)



GRAND FORKS, NORTH DAKOTA

47°58'N-97°24'W

GRAND FORKS AFB (KRDR)

Amdt 1 10210

ILS or LOC RWY 35

TACAN RDR Chan <b>111</b>	APCH CRS <b>179°</b>	Rwy Idg <b>12,351</b> THRE <b>898</b> Arpt Elev <b>913</b>
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AL-5010 [USAF]

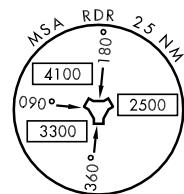
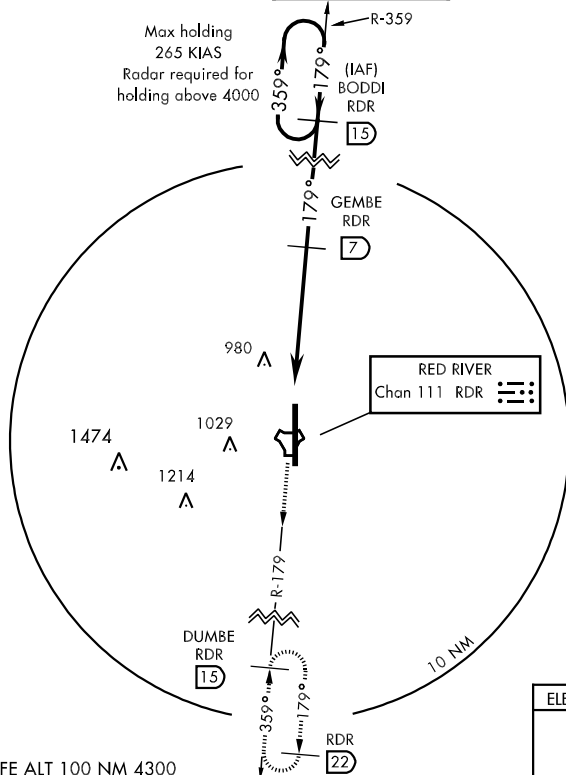
GRAND FORKS AFB (KRDR)

\* When ALS inop, increase CAT ABCDE  
RVR to 55 and vis to 1 mile.  
\*\* Circling E of Rwy 17-35 not authorized.



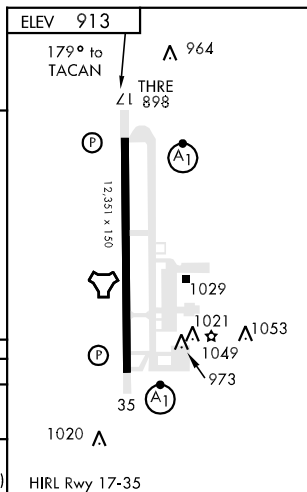
MISSED APPROACH: Climb to 3000 on  
RDR TACAN R-179 to DUMBE and hold.

ATIS ★ <b>273.45</b>	GRAND FORKS APP CON <b>118.1 318.1</b>	RED RIVER TOWER <b>124.9 349.0</b>	GND CON <b>119.15 275.8</b>	CLNC DEL <b>119.15 360.7</b>
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EMERG SAFE ALT 100 NM 4300

3000 RDR R-179	DUMBE RDR 15				
TACAN	PAROC 2	2.3	GEMBE 7	BODDI 15	179° 359° 3000 2.56° TCH 47
7		5.0 NM			
CATEGORY	A	B	C	D	E
S-17 *	1240/24	342 (400-½)	1240/40	342	(400-¾)
CIRCLING **	1340-1 427 (500-1)	1380-1 467 (500-1)	1380-1½ 467 (500-1½)	1480-2 567 (600-2)	2040-3 1127 (1200-3)



TACAN RDR Chan <b>111</b>	APCH CRS <b>348°</b>	Rwy Idg <b>12,351</b> THRE <b>913</b> Arpt Elev <b>913</b>
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AL-5010 [USAF]

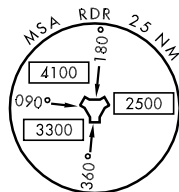
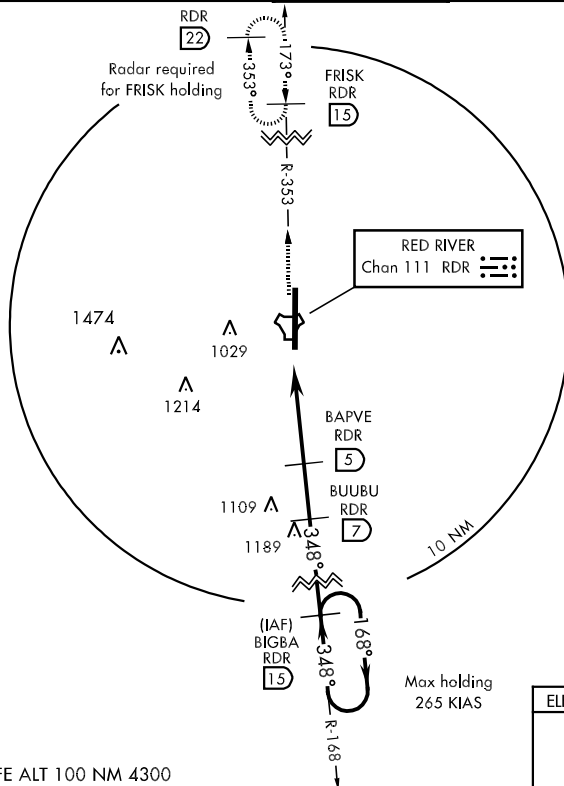
GRAND FORKS AFB (KRDR)

\* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE RVR to 60 and vis to 1½ miles.  
 \*\* Circling E of Rwy 17-35 not authorized.



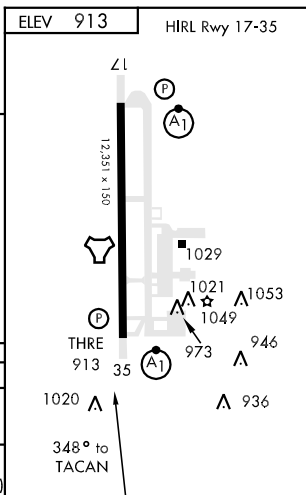
MISSED APPROACH: Climb to 3000 on RDR TACAN R-353 to FRISK and hold.

ATIS ★ <b>273.45</b>	GRAND FORKS APP CON <b>118.1 318.1</b>	RED RIVER TOWER <b>124.9 349.0</b>	GND CON <b>119.15 275.8</b>	CLNC DEL <b>119.15 360.7</b>
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EMERG SAFE ALT 100 NM 4300

3000 RDR R-353	FRISK RDR 15	BUUBU 7	BIGBA 15	348°	
TACAN	MUDBE 1.4	BAPVE 5	2100	2700	
0.6	3.6 NM	2 NM			
CATEGORY	A	B	C	D	E
S-35 *	1320/24	407 (500-½)	1320/40	407	(500-¾)
CIRCLING **	1340-1 427 (500-1)	1380-1 467 (500-1)	1380-1½ 467 (500-1½)	1480-2 567 (600-2)	2040-3 1127 (1200-3)



**GWINNER—ROGER MELROE FLD** (GWR) 1 SE UTC-6(-5DT) N46°13.12' W97°38.61'

**TWIN CITIES**

1266 B **FUEL** 100LL NOTAM FILE GFK

**H-2H, L-14G**

**RWY 16-34:** H4986X60 (ASPH) S-14, D-19 MIRL

**IAP**

**RWY 16:** Road. **RWY 34:** REIL. PAPI(P2L)—GA 3.0° TCH 25'.

**RWY 06-24:** 2950X100 (TURF) 0.5% up SW

**RWY 06:** Antenna. **RWY 24:** P-line.

**AIRPORT REMARKS:** Unattended. For arpt manager call 701-680-8000.

For fuel call 701-680-8000. Deer and birds on and invof arpt.

Rwy 06-24 CLOSED winter months. Rwy 16 +480' lgtd tower

17,500' fm thld 3000' right of extended centerline. Confirm

winter conditions and Rwy 16-34 snow removal with arpt

manager, 701-680-8000 or city maintenance 701-678-2548.

Rwy 16 + 42' P-line 2440' from thld on centerline apch ratio 50:1.

Rwy 06-24 thld marked with red cones, no markers on rwy edges.

ACTIVATE MIRL Rwy 16-34, PAPI and REIL Rwy 34—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.325 (701) 678-6801.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

**MINNEAPOLIS CENTER APP/DEP CON** 127.35

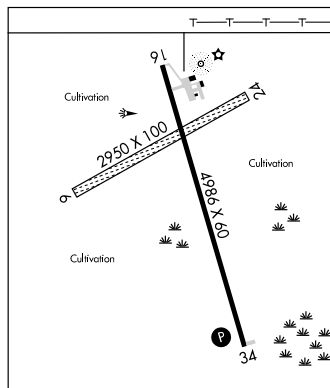
**RADIO AIDS TO NAVIGATION:** NOTAM FILE FAR.

**FARGO (H) VORTACW** 116.2 FAR Chan 109 N46°45.20'

W96°51.08' 217° 45.9 NM to fld. 910/9E. **HIWAS.**

**NDB (MHW)** 278 GWR N46°13.42' W97°38.56' at fld.

NOTAM FILE GFK.



**HAMRY FLD** (See KINDRED)

**HANKINS** (See PARSHALL-HANKINS)

**HARRY STERN** (See WAHPETON)

**HARVEY MUNI** (5H4) 1 N UTC-6(-5DT) N47°47.47' W99°55.91'

**TWIN CITIES**

1607 B **FUEL** 100LL NOTAM FILE GFK

**L-14G**

**RWY 11-29:** H3600X60 (ASPH) S 12.5 MIRL

**IAP**

**RWY 11:** PAPI(P2L)—GA 3.0° TCH 26'. Road.

**RWY 29:** PAPI(P2L)—GA 3.0° TCH 28'. P-line.

**AIRPORT REMARKS:** Unattended. For fuel call 701-324-2225 Harvey police department or arpt manager 701-324-2000. Confirm snow removal after major storm with arpt manager 701-324-2000.

Deer on and invof arpt. MIRL Rwy 11-29 preset on low ints, to

increase ints—and ACTIVATE PAPI Rwy 11 and Rwy 29—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.825 (701) 324-2058.

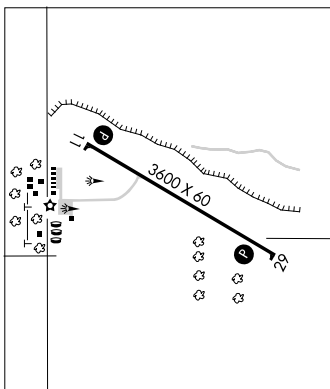
**COMMUNICATIONS:** CTAF/UNICOM 122.8

**MINNEAPOLIS CENTER APP/DEP CON** 126.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DVL.

**DEVILS LAKE (L) VORW/DME** 111.0 DVL Chan 47 N48°06.91'

W98°54.75' 238° 45.5 NM to fld. 1448/7E.



**HAZELTON MUNI** (6H8) 1 E UTC-6(-5DT) N46°28.92' W100°16.19'

**TWIN CITIES**

2003 NOTAM FILE GFK

**RWY 17-35:** 3800X100 (TURF)

**RWY 17:** Road. **RWY 35:** P-line.

**AIRPORT REMARKS:** Unattended. Pilots at W end of twy cannot see acft on opposite end due to steep downslope.

Confirm winter conditions before use; snow removal irregular; call 701-782-6878. Rwy 17-35 surface fair with grass clumps and holes possible. Rwy 17 -3' ditch 30' outbound from thld. Grvl-dirt access road poor and soft when wet; potholes possible. Rwy 17 also +30' trees 300' from thld; 150' right of centerline; apch ration 10:1.

Twy centerline area has rough turf surface, smoothest is south third.

**COMMUNICATIONS:** CTAF 122.9

NDB GWR	APP CRS	Rwy Idg	<b>4986</b>
<b><u>278</u></b>	<b>344°</b>	TDZE	<b>1256</b>
		Apt Elev	<b>1266</b>

NDB RWY 34

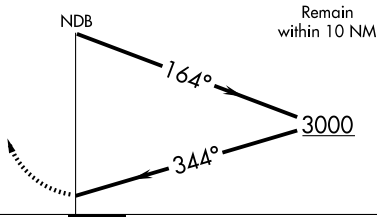
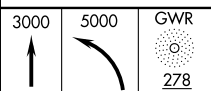
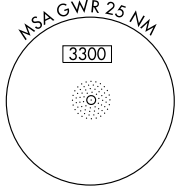
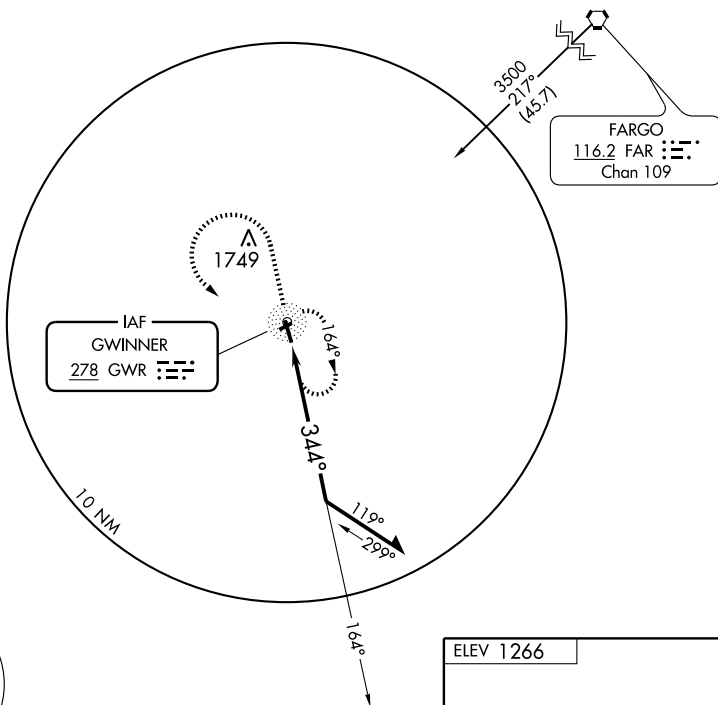
GWINNER-ROGER MELROE FIELD (GWR)

**T** When local altimeter setting not received, use Fargo altimeter setting  
**A** NA and increase all MDA 180 feet. Increase all Cat B visibilities  $\frac{1}{4}$  mile,  
 and all Cat C/D visibilities  $\frac{3}{4}$  mile.

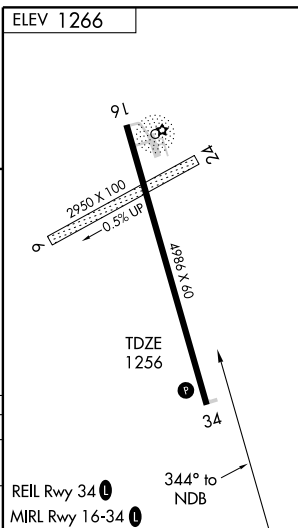
**MISSED APPROACH:** Climb to 3000 then climbing left turn to 5000 direct GWR NDB and hold, continue climb-in-hold to 5000.

AWOS-3  
118.325

MINNEAPOLIS CENTER  
127.35 278.3

UNICOM  
122.7 (CTAF) **L**

CATEGORY	A	B	C	D
S-34	1840-1	584 (600-1)	1840-1½ 584 (600-1½)	1840-1¾ 584 (600-1¾)
CIRCLING	1840-1	574 (600-1)	1840-1½ 574 (600-1½)	1840-2 574 (600-2)



APP CRS **160°**  
 Rwy Idg **4986**  
 TDZE **1256**  
 Apt Elev **1266**

# RNAV (GPS) RWY 16

GWINNER-ROGER MELROE FIELD (GWR)



NA

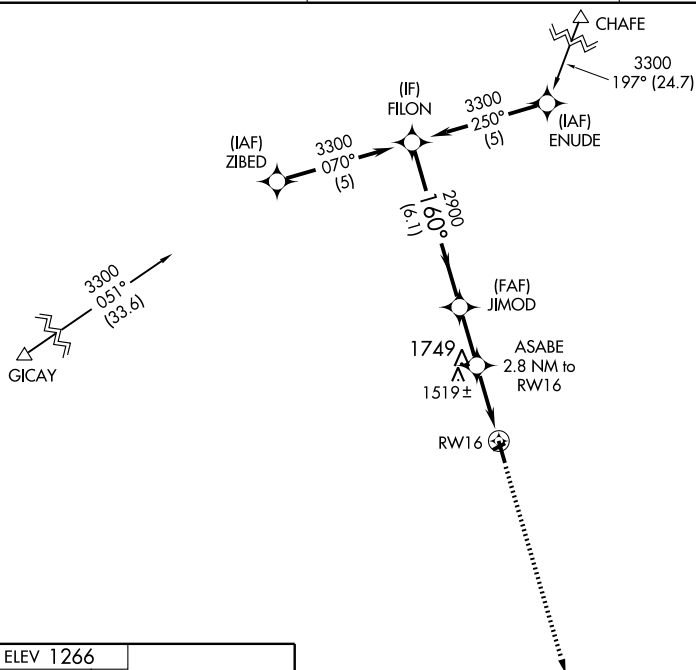
Circling to Rwy 6-24 NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Fargo altimeter setting and increase all MDA 180 feet. Increase LNAV Cat C/D visibility ½ mile, Circling Cat C ½ mile and Cat D ¼ mile.

MISSED APPROACH: Climb to 5000 direct WASWK and hold, continue climb-in-hold to 5000.

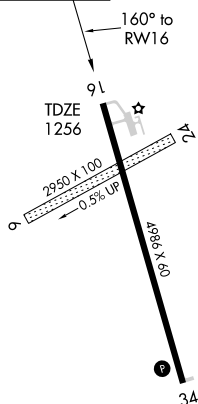
AWOS-3  
**118.325**

MINNEAPOLIS CENTER  
**127.35 278.3**

UNICOM  
**122.7 (CTAF) 0**



ELEV 1266



REIL Rwy 34 0

MIRL Rwy 16-34 0

	FILON	JIMOD	ASABE 2.8 NM to RW16	5000	WASWK
	3300			↑	✧
Procedure	Turn NA	2900	2180		
	6.1 NM	2.2 NM	2.8 NM		
CATEGORY	A	B	C	D	
LNAV MDA	1780-1	524 (600-1)	1780-1½ 524 (600-1½)	1780-1¾ 524 (600-1¾)	
CIRCLING	1780-1	514 (600-1)	1780-1½ 514 (600-1½)	1820-2 554 (600-2)	

WAAS CH <b>99317</b> <b>W34A</b>	APP CRS <b>340°</b>	Rwy Idg TDZE Apt Elev	<b>4986</b> <b>1255</b> <b>1266</b>
--	------------------------	-----------------------------	---

# RNAV (GPS) RWY 34

GWINNER-ROGER MELROE FIELD (GWR)

**NA** Circling to Rwy 6-24 NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Fargo altimeter setting and increase all DA 176 feet, all MDA 180 feet, increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ½ mile, increase LNAV Cat C/D visibility ½ mile and Circling CAT C/D ¼ mile. VDP and Baro-VNAV NA when using Fargo altimeter setting.

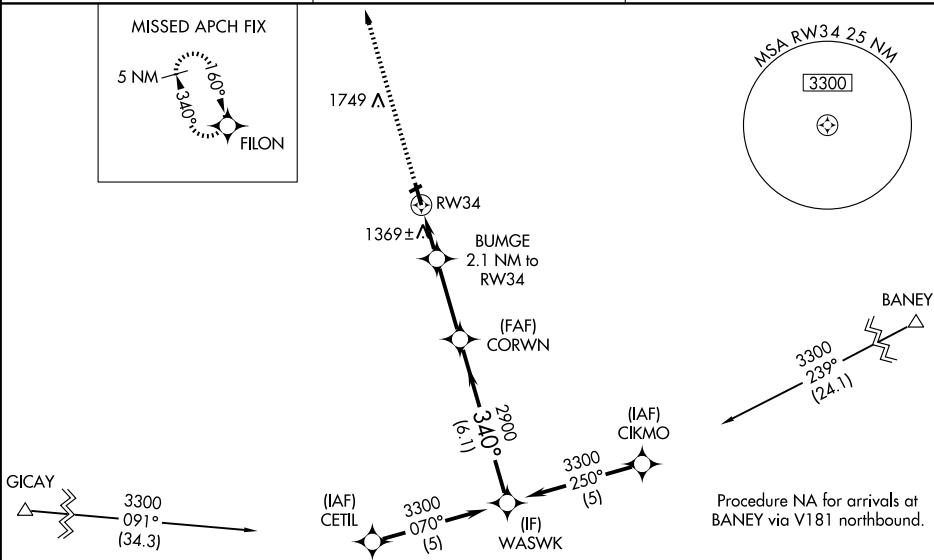
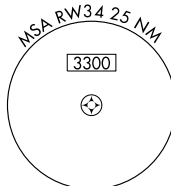
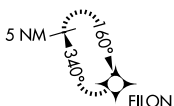
**MISSED APPROACH:** Climb to 5000 direct FILON and hold, continue climb-in-hold to 5000.

AWOS-3  
**118.325**

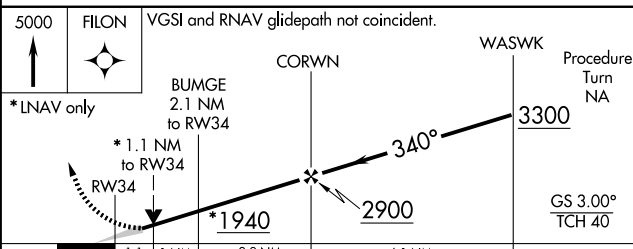
MINNEAPOLIS CENTER  
**127.35 278.3**

UNICOM  
**122.7(CTAF) 0**

MISSED APCH FIX

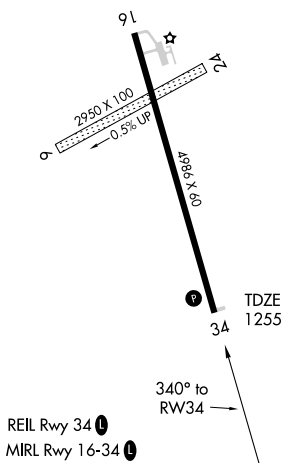


2050 A



CATEGORY	A	B	C	D
LPV DA		1455-1	200 (200-1)	
LNAV/VNAV DA		1506-1	251 (300-1)	
LNAV MDA	1620-1	365 (400-1)	1620-1¼	365 (400-1¼)
CIRCLING	1700-1 434 (500-1)	1720-1 454 (500-1)	1720-1½ 454 (500-1½)	1820-2 554 (600-2)

ELEV 1266





**GWINNER—ROGER MELROE FLD** (GWR) 1 SE UTC-6(-5DT) N46°13.12' W97°38.61'

**TWIN CITIES**

1266 B **FUEL** 100LL NOTAM FILE GFK

**H-2H, L-14G**

**RWY 16-34:** H4986X60 (ASPH) S-14, D-19 MIRL

**IAP**

**RWY 16:** Road. **RWY 34:** REIL. PAPI(P2L)—GA 3.0° TCH 25'.

**RWY 06-24:** 2950X100 (TURF) 0.5% up SW

**RWY 06:** Antenna. **RWY 24:** P-line.

**AIRPORT REMARKS:** Unattended. For arpt manager call 701-680-8000.

For fuel call 701-680-8000. Deer and birds on and invof arpt.

Rwy 06-24 CLOSED winter months. Rwy 16 +480' lgtd tower

17,500' fm thld 3000' right of extended centerline. Confirm

winter conditions and Rwy 16-34 snow removal with arpt

manager, 701-680-8000 or city maintenance 701-678-2548.

Rwy 16 + 42' P-line 2440' from thld on centerline apch ratio 50:1.

Rwy 06-24 thld marked with red cones, no markers on rwy edges.

ACTIVATE MIRL Rwy 16-34, PAPI and REIL Rwy 34—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.325 (701) 678-6801.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

**MINNEAPOLIS CENTER APP/DEP CON** 127.35

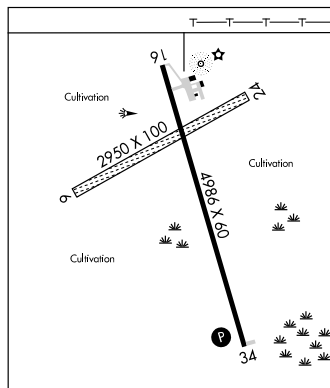
**RADIO AIDS TO NAVIGATION:** NOTAM FILE FAR.

**FARGO (H) VORTACW** 116.2 FAR Chan 109 N46°45.20'

W96°51.08' 217° 45.9 NM to fld. 910/9E. **HIWAS.**

**NDB (MHW)** 278 GWR N46°13.42' W97°38.56' at fld.

NOTAM FILE GFK.



**HAMRY FLD** (See KINDRED)

**HANKINS** (See PARSHALL-HANKINS)

**HARRY STERN** (See WAHPETON)

**HARVEY MUNI** (5H4) 1 N UTC-6(-5DT) N47°47.47' W99°55.91'

**TWIN CITIES**

1607 B **FUEL** 100LL NOTAM FILE GFK

**L-14G**

**RWY 11-29:** H3600X60 (ASPH) S 12.5 MIRL

**IAP**

**RWY 11:** PAPI(P2L)—GA 3.0° TCH 26'. Road.

**RWY 29:** PAPI(P2L)—GA 3.0° TCH 28'. P-line.

**AIRPORT REMARKS:** Unattended. For fuel call 701-324-2225 Harvey police department or arpt manager 701-324-2000. Confirm snow removal after major storm with arpt manager 701-324-2000.

Deer on and invof arpt. MIRL Rwy 11-29 preset on low ints, to

increase ints—and ACTIVATE PAPI Rwy 11 and Rwy 29—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.825 (701) 324-2058.

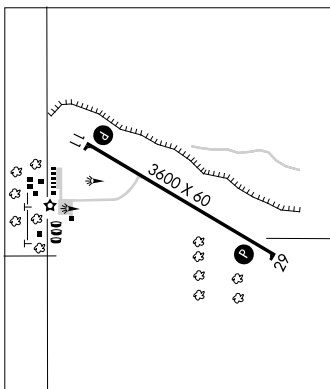
**COMMUNICATIONS:** CTAF/UNICOM 122.8

**MINNEAPOLIS CENTER APP/DEP CON** 126.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DVL.

**DEVILS LAKE (L) VORW/DME** 111.0 DVL Chan 47 N48°06.91'

W98°54.75' 238° 45.5 NM to fld. 1448/7E.



**HAZELTON MUNI** (6H8) 1 E UTC-6(-5DT) N46°28.92' W100°16.19'

**TWIN CITIES**

2003 NOTAM FILE GFK

**RWY 17-35:** 3800X100 (TURF)

**RWY 17:** Road. **RWY 35:** P-line.

**AIRPORT REMARKS:** Unattended. Pilots at W end of twy cannot see acft on opposite end due to steep downslope.

Confirm winter conditions before use; snow removal irregular; call 701-782-6878. Rwy 17-35 surface fair with grass clumps and holes possible. Rwy 17 -3' ditch 30' outbound from thld. Grvl-dirt access road poor and soft when wet; potholes possible. Rwy 17 also +30' trees 300' from thld; 150' right of centerline; apch ration 10:1.

Twy centerline area has rough turf surface, smoothest is south third.

**COMMUNICATIONS:** CTAF 122.9

APP CRS <b>112°</b>	Rwy Idg TDZE <b>1605</b> Apt Elev <b>1605</b>
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**GPS RWY 11**  
HARVEY MUNI (5H4)



Use Devils Lake altimeter setting.  
Procedure not authorized at night.

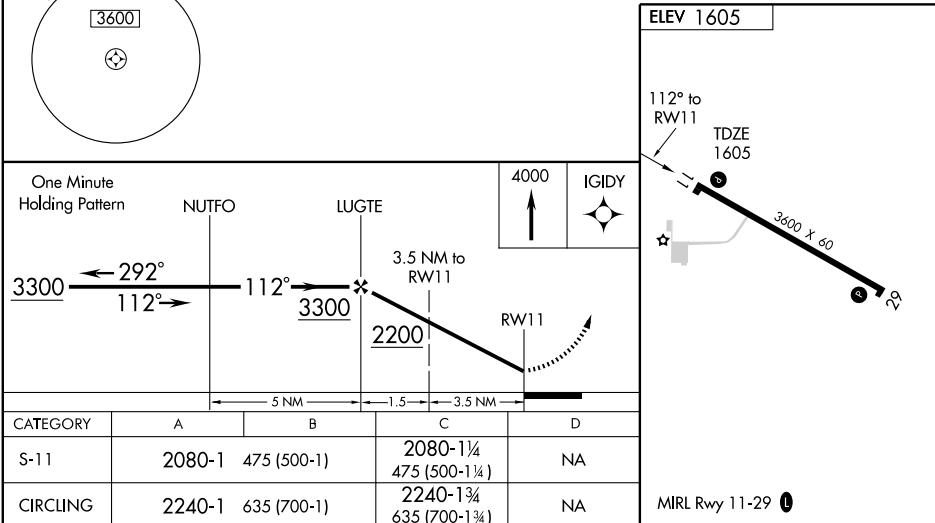
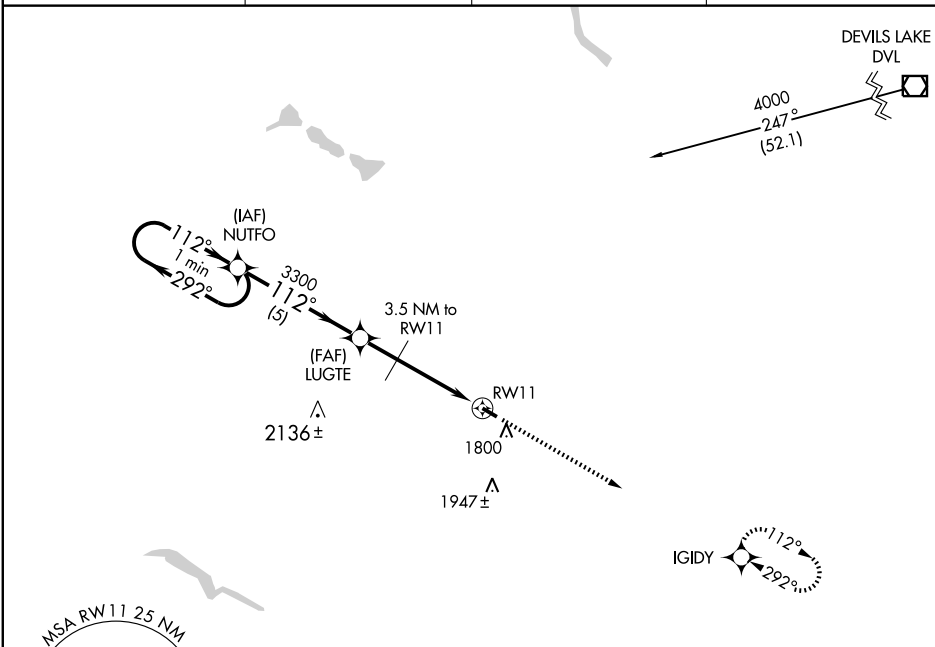
MISSED APPROACH: Climb to 4000 direct IGIDY WP and hold.

AWOS-3  
**118.825**

DEVILS LAKE AWOS-3  
**125.875**

MINNEAPOLIS CENTER  
**126.8 256.7**

UNICOM  
**122.8 (CTAF)**



APP CRS <b>292°</b>	Rwy Idg TDZE <b>1605</b> Apt Elev <b>1605</b>
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# GPS RWY 29

HARVEY MUNI (5H4)

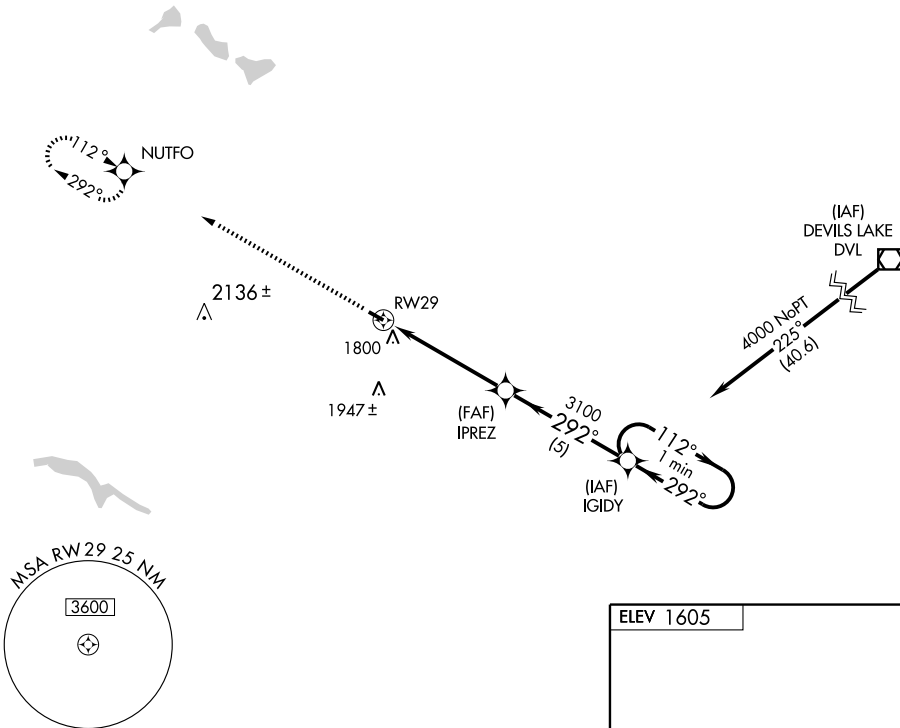
▲ NA	Use Devils Lake altimeter setting. Procedure not authorized at night.	MISSED APPROACH: Climb to 4000 direct NUTFO WP and hold.

AWOS-3  
**118.825**

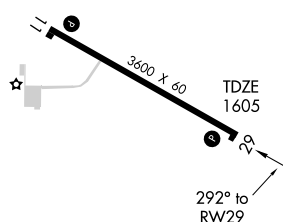
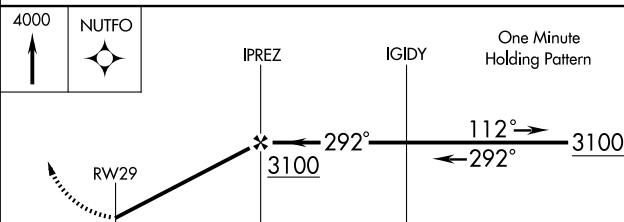
DEVILS LAKE AWOS-3  
**125.875**

MINNEAPOLIS CENTER  
**126.8 256.7**

UNICOM  
**122.8 (CTAF) 0**



ELEV 1605



CATEGORY	A	B	C	D
S-29	2140-1	535 (600-1)	2140-1½ 535 (600-1½)	NA
CIRCLING	2240-1	635 (700-1)	2240-1¾ 635 (700-1¾)	NA

MIRL Rwy 11-29 0

HAZEN N47°16.17' W101°25.67'

RCO 122.45 (GRAND FORKS RADIO)

BILLINGS

L-14F

## HAZEN

MERCER CO RGNL (HZE) 2 E UTC-6(-5DT) N47°17.40' W101°34.86'

1814 B S2 FUEL 100LL, JET A NOTAM FILE GFK

RWY 14-32: H4999X75 (ASPH) S-17 MIRL 0.5% up SE

RWY 14: PAPI(P2L)—GA 3.0° TCH 27'.

RWY 32: REIL. PAPI(P2L)—GA 3.0° TCH 29'.

AIRPORT REMARKS: Unattended. Self svc 24 hr credit card fueling avbl.

Confirm snow removal Oct-Apr, call 701-880-0042.

Transportation svc call 701-880-0042. 654' lgtd twr 3.8 NM

from thld Rwy 14. Rwy 14-32 twy and apron marked with

reflectors. Rwy 14-32 apron has 2 CONC 20,000 lb single weight

tiedown spaces. ACTIVATE MIRL Rwy 14-32, REIL Rwy 32, and

PAPI Rwy 14 and Rwy 32—CTAF

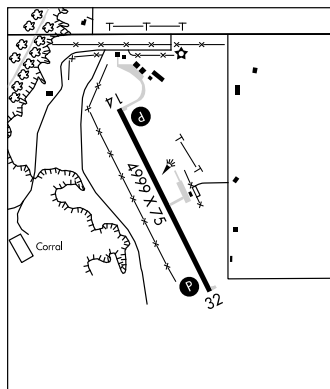
COMMUNICATIONS: CTAF 122.8

MINNEAPOLIS CENTER APP/DEP CON 124.25

RADIO AIDS TO NAVIGATION: NOTAM FILE BIS.

BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71'

W100°39.92' 298° 49.2 NM to fld. 1841/12E. HIWAS.



## HECTOR INTL (See FARGO)

HETTINGER MUNI (HEI) 1 NW UTC-7(-6DT) N46°00.90' W102°39.36'

2705 B S4 FUEL 100LL, A NOTAM FILE HEI

RWY 12-30: H4652X75 (ASPH) S-11.5 MIRL

RWY 12: PAPI(P2L)—GA 3.0° TCH 25'. Fence.

RWY 30: PAPI(P2L)—GA 3.0° TCH 25'. Fence.

RWY 17-35: 1890X100 (TURF)

RWY 35: Fence.

AIRPORT REMARKS: Attended Mon-Sat 1400-0000Z†. For attendant

dusk-dawn call 701-567-2069. 24 hr self svc fuel avbl with

credit card. Deer on and invof arpt. Twys illuminated with

reflectors for nighttime use. Confirm winter conditions Rwy 17-35,

call arpt manager 701-567-2069. Rotating bcn OTS indef. MIRL

Rwy 12-30 preset on low ints dusk-0630Z†, after 0630Z†

ACTIVATE—CTAF. To increase ints and ACTIVATE PAPI Rwy 12 and

Rwy 30—CTAF.

WEATHER DATA SOURCES: ASOS 119.925 (701) 567-4594.

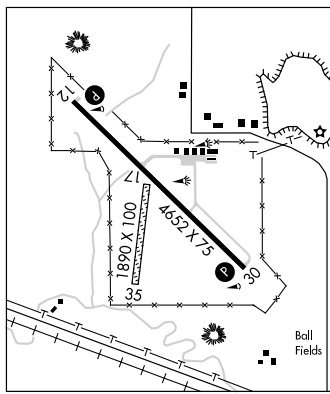
COMMUNICATIONS: CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 124.25

RADIO AIDS TO NAVIGATION: NOTAM FILE DIK.

DICKINSON (H) VORTACW 112.9 DIK Chan 76 N46°51.60'

W102°46.41' 160° 51.0 NM to fld. 2520/14E. HIWAS.



BILLINGS

L-14F

IAP

Bell  
Fields

WAAS CH <b>48818</b> <b>W14A</b>	APP CRS <b>144°</b>	Rwy Idg <b>4999</b> TDZE <b>1787</b> Apt Elev <b>1814</b>
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# RNAV (GPS) RWY 14

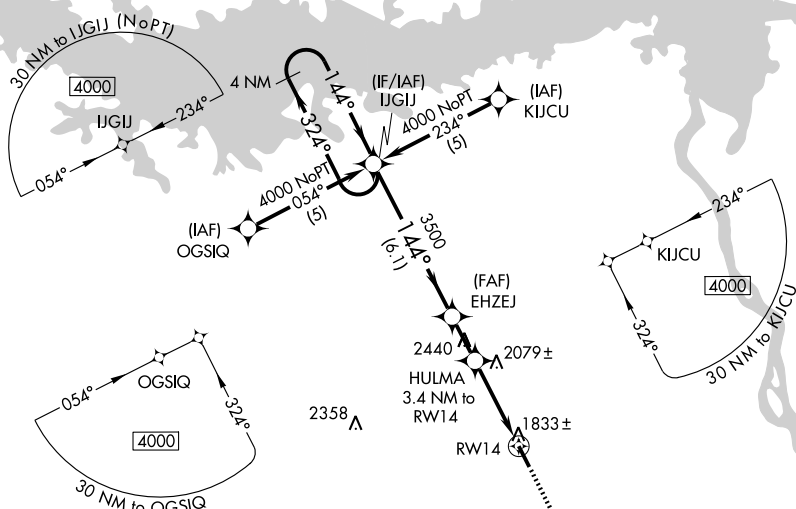
## HAZEN/MERCER COUNTY RGNL (HZE)

**NA** When VGSi inoperative, procedure NA at night. Baro-VNAV NA. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Bismarck altimeter setting, when not received use Mnot Intl altimeter setting and increase all DA 23 feet and all MDA 40 feet. Increase LPV and LNAV/VNAV visibility all Cats ½ mile.

**MISSED APPROACH:**  
Climb to 4000 direct  
UKUV and hold.

BISMARCK ASOS  
**119.35**

MINNEAPOLIS CENTER  
124.25 380.3

CTAF  
122.8 **L**

ELEV 1814

← 144° to  
RW14

TDZE  
1787

4999X7

MIRL Rwy 14-32 **L**  
REIL Rwy 32 **L**

## MISSED APCH FIX

Δ 2640

 $2651 \pm \Delta$ 4 NM  
Holding Pattern

VGSI and RNAV glidepath  
not coincident.

4000  
▲

IJKUV

Diagram illustrating the flight path from IJGJ to EHZEJ and HULMA:

- From IJGJ, the path proceeds west on a heading of  $324^\circ$  for 4000 feet.
- At IJGJ, the path turns  $144^\circ$  right to a heading of  $144^\circ$  and flies 3500 feet to EHZEJ.
- At EHZEJ, the path turns  $144^\circ$  right to a heading of  $2920^\circ$  and flies 3500 feet to HULMA.
- HULMA is 3.4 NM from RW14.
- The distance from IJGJ to EHZEJ is 4.1 NM, and from EHZEJ to HULMA is 1.8 NM.
- The total distance from IJGJ to HULMA is 5.9 NM.
- The diagram also shows a  $3.00^\circ$  TCH 45 and a 3.4 NM distance to RW14.
- A note indicates  $* \text{LNAV only}$ .

CATEGORY	A	B	C	D
LPV DA	2165-1¼	378	400-1¼	NA
LNAV/ VNAV	2231-1½	444	500-1½	NA
LNAV MDA	2460-1	673 (700-1)	2460-2 673 (700-2)	NA
CIRCLING	2460-1	646 (700-1)	2460-2 646 (700-2)	NA

HAZEN, NORTH DAKOTA  
Amdt 1 29JUL10

47°17'N-101°35'W

HAZEN/MERCER COUNTY RGNL (HZE)  
RNAV (GPS) RWY 14

NC-1. 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

WAAS CH <b>53318</b> <b>W32A</b>	APP CRS <b>324°</b>	Rwy Idg TDZE Apt Elev	<b>4999</b> <b>1814</b> <b>1814</b>
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# RNAV (GPS) RWY 32

HAZEN/MERCER COUNTY RGNL (HZE)

**⚠** When VGSI inoperative, procedure NA at night. Baro-VNAV NA. DME/DME RNP-0.3 NA.  
**⚠ NA** Visibility reduction by helicopters NA. Use Bismarck altimeter setting, when not received use Minot Inlt altimeter setting and increase all DA 23 feet and all MDA 40 feet. Increase LPV all Cats, LNAV Cat C and Circling Cat C visibility ¼ mile.

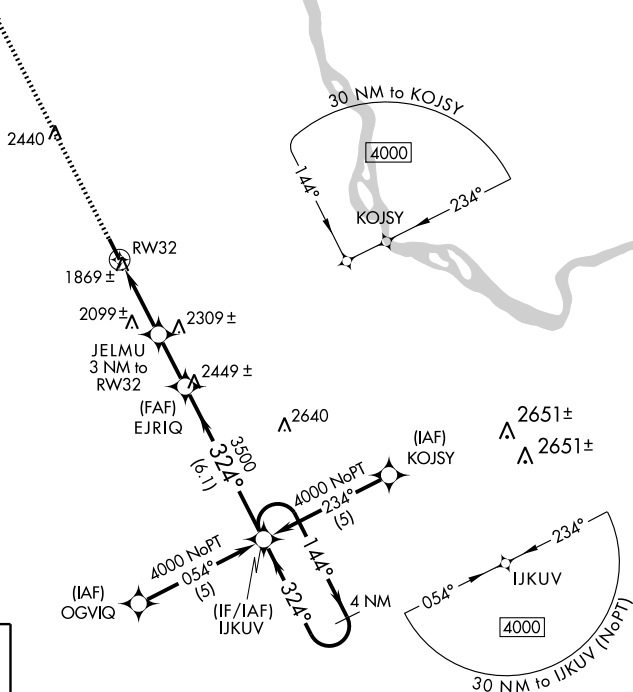
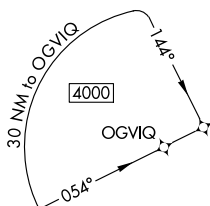
**MISSED APPROACH:**  
Climb to 4000 direct IJGU and hold.

BISMARCK ASOS  
**119.35**

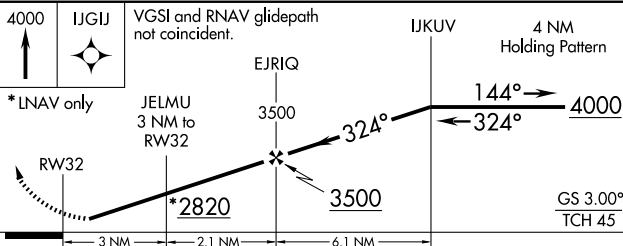
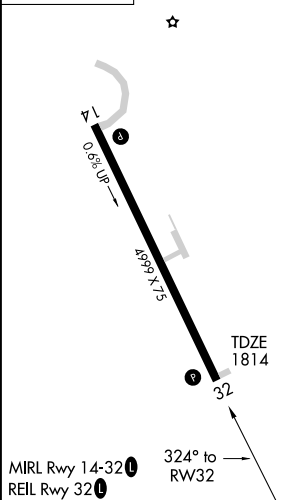
MINNEAPOLIS CENTER  
**124.25 380.3**

CTAF  
**122.8**

MISSED APCH FIX



ELEV 1814



CATEGORY	A	B	C	D
LPV DA	2192-1¼	378 (400-1¼)		NA
LNAV/VNAV DA	2352-2	538 (600-2)		NA
LNAV MDA	2480-1	666 (700-1)	2480-1¼ 666 (700-1¼)	NA
CIRCLING	2480-1	666 (700-1)	2480-1¼ 666 (700-1¼)	NA

HAZEN N47°16.17' W101°25.67'

RCO 122.45 (GRAND FORKS RADIO)

BILLINGS

L-14F

## HAZEN

MERCER CO RGNL (HZE) 2 E UTC-6(-5DT) N47°17.40' W101°34.86'

1814 B S2 FUEL 100LL, JET A NOTAM FILE GFK

RWY 14-32: H4999X75 (ASPH) S-17 MIRL 0.5% up SE

RWY 14: PAPI(P2L)—GA 3.0° TCH 27'.

RWY 32: REIL. PAPI(P2L)—GA 3.0° TCH 29'.

AIRPORT REMARKS: Unattended. Self svc 24 hr credit card fueling avbl.

Confirm snow removal Oct-Apr, call 701-880-0042.

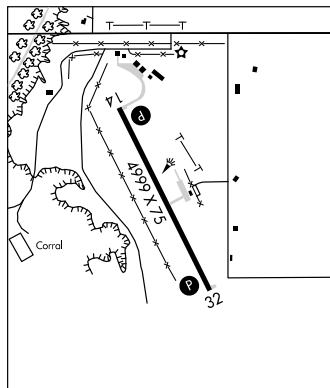
Transportation svc call 701-880-0042. 654' lgtd twr 3.8 NM from thld Rwy 14. Rwy 14-32 twy and apron marked with reflectors. Rwy 14-32 apron has 2 CONC 20,000 lb single weight tiedown spaces. ACTIVATE MIRL Rwy 14-32, REIL Rwy 32, and PAPI Rwy 14 and Rwy 32—CTAF

COMMUNICATIONS: CTAF 122.8

MINNEAPOLIS CENTER APP/DEP CON 124.25

RADIO AIDS TO NAVIGATION: NOTAM FILE BIS.

BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71' W100°39.92' 298° 49.2 NM to fld. 1841/12E. HIWAS.



## HECTOR INTL (See FARGO)

HETTINGER MUNI (HEI) 1 NW UTC-7(-6DT) N46°00.90' W102°39.36'

2705 B S4 FUEL 100LL, A NOTAM FILE HEI

RWY 12-30: H4652X75 (ASPH) S-11.5 MIRL

RWY 12: PAPI(P2L)—GA 3.0° TCH 25'. Fence.

RWY 30: PAPI(P2L)—GA 3.0° TCH 25'. Fence.

RWY 17-35: 1890X100 (TURF)

RWY 35: Fence.

AIRPORT REMARKS: Attended Mon-Sat 1400-0000Z†. For attendant dusk-dawn call 701-567-2069. 24 hr self svc fuel avbl with credit card. Deer on and invof arpt. Twys illuminated with reflectors for nighttime use. Confirm winter conditions Rwy 17-35, call arpt manager 701-567-2069. Rotating bcn OTS indef. MIRL Rwy 12-30 preset on low ints dusk-0630Z†, after 0630Z† ACTIVATE—CTAF. To increase ints and ACTIVATE PAPI Rwy 12 and Rwy 30—CTAF.

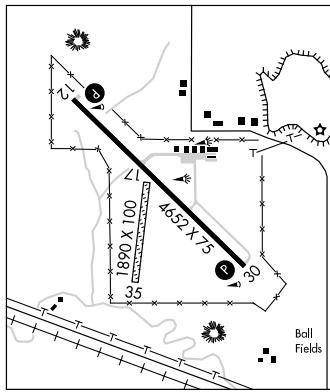
WEATHER DATA SOURCES: ASOS 119.925 (701) 567-4594.

COMMUNICATIONS: CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 124.25

RADIO AIDS TO NAVIGATION: NOTAM FILE DIK.

DICKINSON (H) VORTACW 112.9 DIK Chan 76 N46°51.60' W102°46.41' 160° 51.0 NM to fld. 2520/14E. HIWAS.



BILLINGS

L-14F

IAP

APP CRS  
**308°**

Rwy ldg **4652**  
TDZE **2705**  
Apt Elev **2705**

# RNAV (GPS) RWY 30

HETTINGER MUNI (HET)

**▼** DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Bowman altimeter setting and increase all MDA 120 feet. Increase LNAV Cat C/D visibilities ¼ mile, Circling Cat C ¼ mile, and Cat D ½ mile. VDP NA with Bowman altimeter setting.

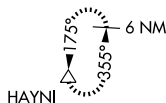
**MISSED APPROACH:**  
Climb to 6000 direct HAYNI and hold, continue climb-in-hold to 6000.

ASOS  
**119.925**

MINNEAPOLIS CENTER  
**124.25 380.3**

UNICOM  
**122.8 (CTAF) 0**

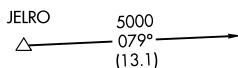
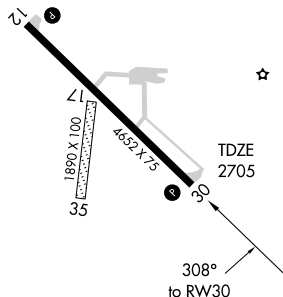
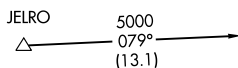
3547 **▲**



MSA RW30 25 NM

4600

ELEV 2705



CATEGORY	A		B		C		D	
	LNAV MDA		3320-1 615 (700-1)		3320-1¾ 615 (700-1¾)		3320-2 615 (700-2)	
CIRCLING	3320-1		615 (700-1)		3320-1¾ 615 (700-1¾)		3400-2¼ 695 (700-2¼)	
	3320-1		615 (700-1)		3320-1¾ 615 (700-1¾)		3400-2¼ 695 (700-2¼)	

HETTINGER, NORTH DAKOTA

Orig 03JUN10

46°01'N - 102°39'W

HETTINGER MUNI (HET)

# RNAV (GPS) RWY 30



**HILLSBORO MUNI** (3H4) 3 S UTC-6(-5DT) N47°21.57' W97°03.62'

905 B S4 **FUEL** 100LL NOTAM FILE GFK

**RWY 16-34:** H3300X60 (ASPH) S-16.5 MIRL

**RWY 16:** PAPI(P2L)—GA 3.0° TCH 25'.

**RWY 34:** PAPI(P2L)—GA 3.0° TCH 25'. Road.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z†. After hrs on call 701-430-1444. Fuel 24 hr self svc credit card fuel avbl. For snow removal or winter conditions call arpt 701-436-4039 or 430-1444. Aerial spraying ops May-Aug invof arpt. **ACTIVATE** MIRL Rwy 16-34 and PAPI Rwy 16 and Rwy 34—CTAF.

**COMMUNICATIONS:** CTAF 122.9

Ⓡ **FARGO APP/DEP CON** 120.4 (1200-0500Z†)

Ⓡ **MINNEAPOLIS CENTER APP/DEP CON** 127.35 (0500-1200Z†)

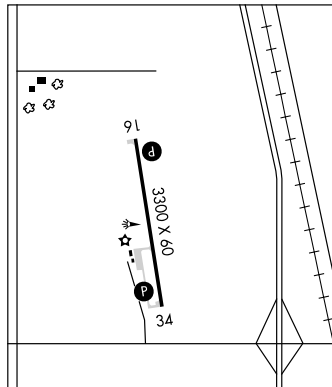
**RADIO AIDS TO NAVIGATION:** NOTAM FILE GFK.

**GRAND FORKS (H) VORW/DME** 114.3 GFK Chan 90 N47°57.29' W97°11.12' 163° 36.1 NM to fld. 841/9E. **HIWAS.**

**TWIN CITIES**

**L-14G**

**IAP**



**HISER** N47°50.78' W97°10.89' NOTAM FILE GFK.

**NDB(LOM)** 345 GF 356° 6.2 NM to Grand Forks Intl.

**TWIN CITIES**

**HUTSON FLD** (See GRAFTON)

**INTL PEACE GARDEN** (See DUNSEITH)

**JADAN** N46°41.88' W100°38.86' NOTAM FILE BIS.

**NDB (LOM)** 230 BI 307° 6.1 NM to Bismarck Muni. Unmonitored.

**TWIN CITIES**

**L-14F**

APP CRS	Rwy Idg	<b>3300</b>
<b>166°</b>	TDZE	<b>905</b>
	Apt Elev	<b>905</b>

**RNAV (GPS) RWY 16**

HILLSBORO MUNI (3H4)



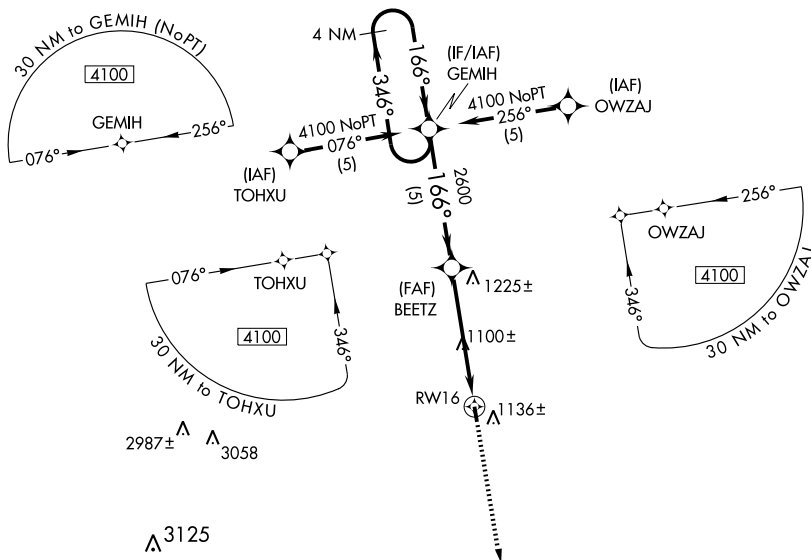
DME/DME RNP- 0.3 NA.  
Use Fargo altimeter setting.

MISSED APPROACH: Climb to 4100 direct IKLAJ WP and hold.

FARGO ASOS  
**124.5**

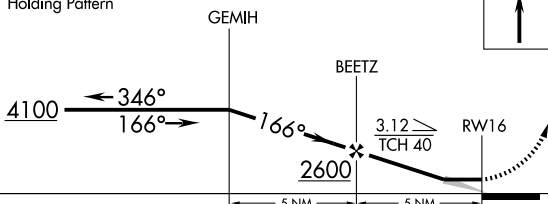
FARGO APP CON ★  
**120.4 377.15**

CTAF  
**122.9**

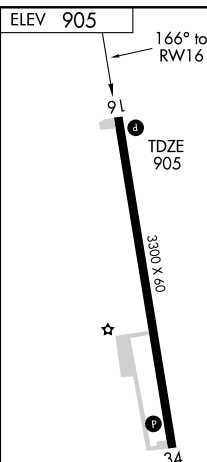


4 NM  
Holding Pattern

VGSI and descent angles not coincident.



CATEGORY	A	B	C	D
RNAV MDA	1480-1	575 (600-1)	1480-1½ 575 (600-1½)	NA
CIRCLING	1520-1	615 (700-1)	1520-1¾ 615 (700-1¾)	NA



MIRL Rwy 16-34

APP CRS <b>346°</b>	Rwy Idg TDZE Apt Elev	<b>3300</b> <b>905</b> <b>905</b>
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# RNAV (GPS) RWY 34

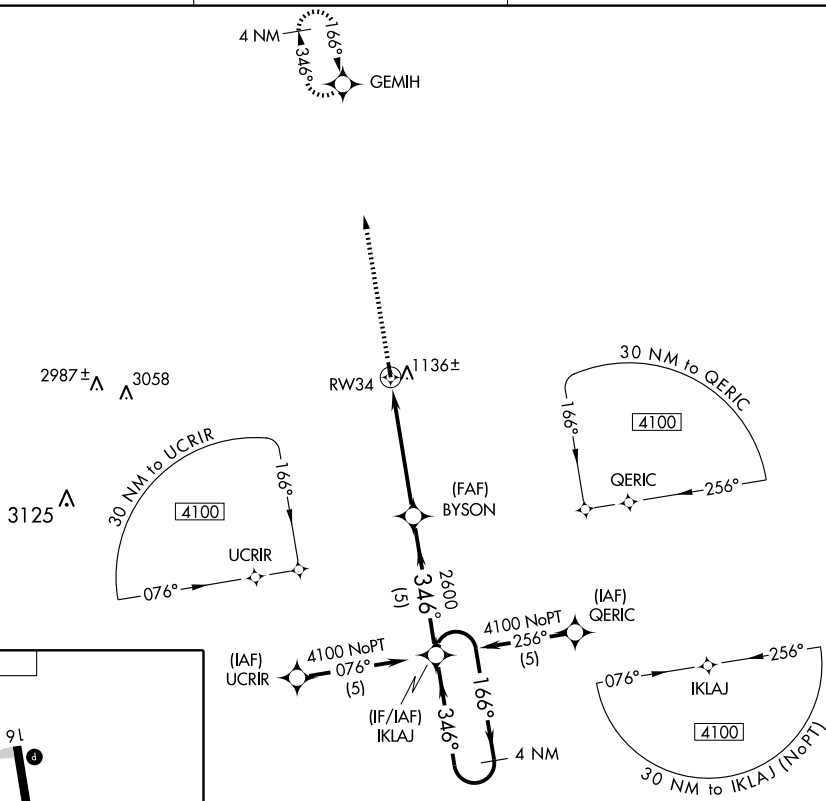
HILLSBORO MUNI (3H4)

<p><b>NA</b></p> <p>DME/DME RNP- 0.3 NA. Use Fargo altimeter setting.</p>	<p>MISSED APPROACH: Climb to 4100 direct GEMIH WP and hold.</p>
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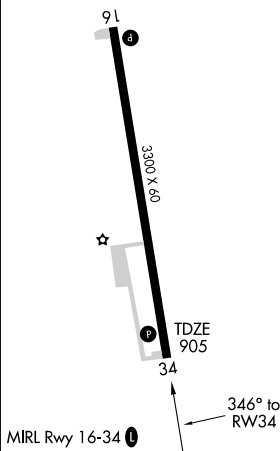
FARGO ASOS  
**124.5**

FARGO APP CON★  
**120.4 377.15**

CTAF  
**122.9 0**



ELEV 905



HILLSBORO, NORTH DAKOTA

Orig-A 07354

47° 22'N-97° 04'W

HILLSBORO MUNI (3H4)

# RNAV (GPS) RWY 34

NC-1, 26 AUG 2010 to 23 SEP 2010

4100 ↑		GEMIH 		VGSI and descent angles not coincident.		IKLAJ		4 NM Holding Pattern	
		RW34 ≤ 3.12° TCH 40		BYSON		346°		166° → 4100 ← 346°	
5 NM		5 NM							
CATEGORY	A		B		C		D		
LNAV MDA	1460-1 555 (600-1)				1460-1½ 555 (600-1½)		NA		
CIRCLING	1520-1 615 (700-1)				1520-1¾ 615 (700-1¾)		NA		

**JAMESTOWN RGNL** (JMS) 2 NE UTC-6(-5DT) N46°55.78' W98°40.69'

TWIN CITIES

1500 B S4 FUEL 100LL, JET A OX 3 Class I, ARFF Index A NOTAM FILE JMS

H-2H, L-14G

RWY 13-31: H6502X100 (ASPH-GRVD) S-130, D-160, 2S-175, 2D-250 HIRL

IAP

RWY 13: REIL. VASI(V4L)—GA 3.0° TCH 51'. Tree.

RWY 31: MALSR. PAPI(P4L)—GA 3.0° TCH 50'.

RWY 04-22: H5750X75 (ASPH) S-85, D-103, 2S-131, 2D-162 MIRL

RWY 04: REIL. PAPI(P4L)—GA 3.0° TCH 20'. Pole.

RWY 22: REIL. PAPI(P4L)—GA 3.0° TCH 20'.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 04: TORA-5750 TODA-5750 ASDA-5750 LDA-5750

RWY 13: TORA-6502 TODA-6502 ASDA-6502 LDA-6502

RWY 22: TORA-5750 TODA-5750 ASDA-5750 LDA-5750

RWY 31: TORA-6502 TODA-6502 ASDA-6502 LDA-6502

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z. For attendant after hrs, call 701-952-1515. Fuel 100LL avbl 24 hrs with credit card. 24 hr pilot lounge avbl. Birds on and invof arpt. 48 hrs PPR for unscheduled air carrier ops with more than 30 passenger seats call arpt manager 701-252-0224/701-252-6466. Air carrier ops involving acft with more than 9 passengers are not authorized in excess of 15 minutes before or after scheduled arrival/departure times without prior coordination with arpt manager and confirmation that ARFF is avbl prior to landing or takeoff. Rwy 13 VASI restricted to +/- 8° either side of centerline. ACTIVATE MIRL Rwy 04-22, HIRL Rwy 13-31, MALSR Rwy 31, VASI Rwy 13, REIL Rwy 13, Rwy 04, and Rwy 22, and PAPI Rwy 04, Rwy 22 and Rwy 31—CTAF.

**WEATHER DATA SOURCES:** ASOS 118.425 (701) 251-9002.

HIWAS 114.5 JMS.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

RCO 123.6 122.2 (GRAND FORKS RADIO)

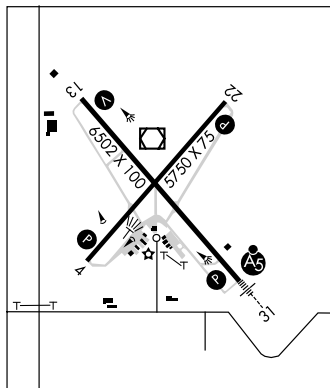
MINNEAPOLIS CENTER APP/DEP CON 124.2

**RADIO AIDS TO NAVIGATION:** NOTAM FILE JMS.

(L) VORW/DME 114.5 JMS Chan 92 N46°55.97' W98°40.73' at fld. 1493/10E. HIWAS.

SABON NDB (LOM) 395 JM N46°51.77' W98°34.84' 307° 5.7 NM to fld.

ILS/DME 109.3 I-JMS Chan 30 Rwy 31 Class IE. LOM SABON NDB. ILS unmonitored.

**KENIE** N47°00.56' W96°48.91' NOTAM FILE FAR.

TWIN CITIES

NDB (HW/LOM) 365 AA 174° 5.3 NM to Hector Intl.

L-14G

**KENMARE MUNI** (7K5) 1 SE UTC-6(-5DT) N48°40.06' W102°02.86'

BILLINGS

1962 B FUEL 100LL NOTAM FILE GFK

L-14F

RWY 08-26: H3700X60 (ASPH) S-12 MIRL

IAP

RWY 08: PAPI(P2L)—GA 3.0° TCH 25'. Pole.

RWY 26: PAPI(P2L)—GA 3.0° TCH 25'. Road.

**AIRPORT REMARKS:** Unattended. 24 hr self svc fuel avbl with credit card. Confirm winter conditions and snow removal with arpt manager 701-385-4029. Waterfowl on or invof arpt. Wildlife refuge located 3500' west. ACTIVATE MIRL Rwy 08-26 and PAPI Rwy 08 and Rwy 26—CTAF.

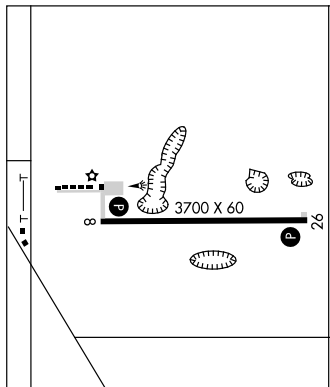
**COMMUNICATIONS:** CTAF 122.8

Ⓡ MINOT APP/DEP CON 119.6 (Opr 24 hrs from Mon 1300Z thru Sat 0500Z. Sat and Sun 1300-0500Z), other hrs ctc MINNEAPOLIS CENTER APP/DEP CON 127.6

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISN.

WILLSTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21' W103°45.04' 057° 72.4 NM to fld. 2372/12E.

HIWAS.



# ILS or LOC RWY 31

## JAMESTOWN RGNL (JMS)

LOC/DME I-JMS  
**109.3**  
Chan **30**

APP CRS  
**307°**

Rwy Idg **6502**  
TDZE **1498**  
Apt Elev **1500**

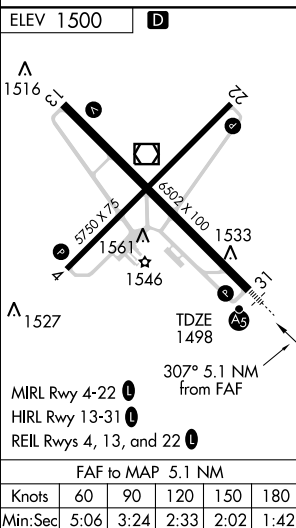
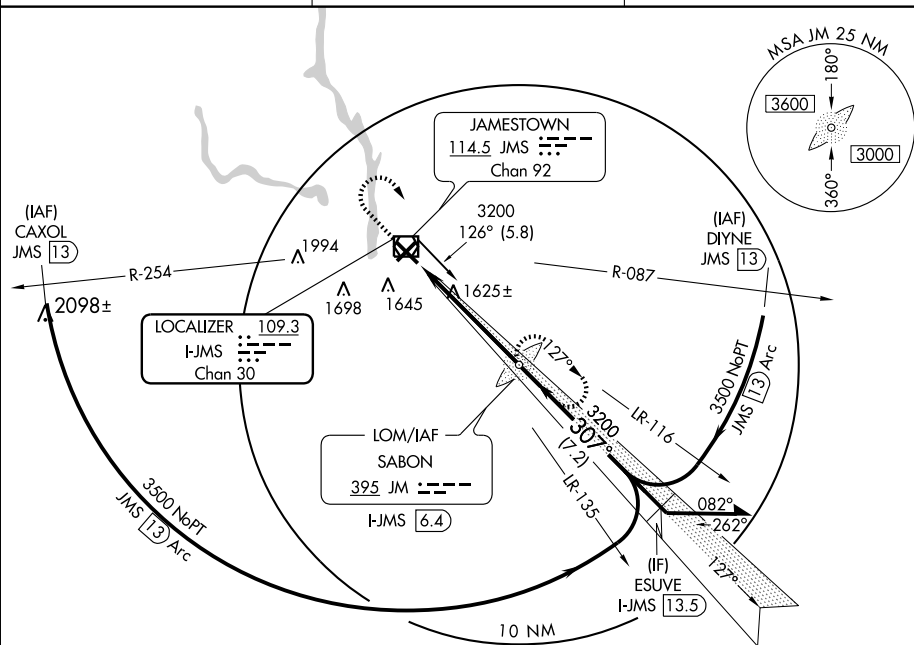


MISSED APPROACH: Climb to 3200 then right turn direct SABON LOM/I-JMS 6.4 DME and hold.

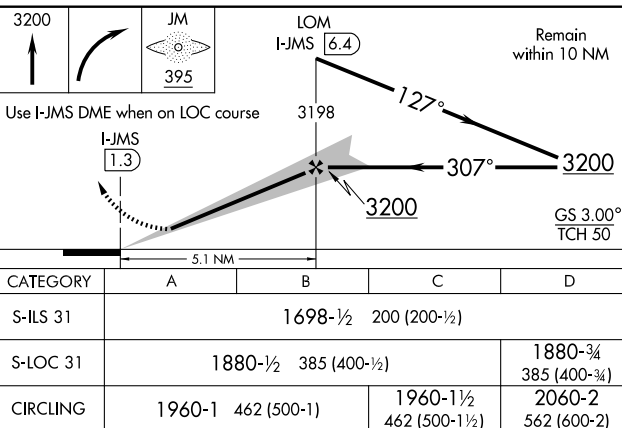
ASOS  
**118.425**

MINNEAPOLIS CENTER  
**124.2 270.3**

UNICOM  
**123.0 (CTAF) 0**



### DME or ADF REQUIRED



JAMESTOWN, NORTH DAKOTA  
Amdt 7E 09295

46°56'N-98°41'W

JAMESTOWN RGNL (JMS)  
ILS or LOC RWY 31

LOC/DME I-JMS <b><u>109.3</u></b> Chan <b>30</b>	APP CRS <b>127°</b>	Rwy Idg <b>6502</b> TDZE <b>1498</b> Apt Elev <b>1498</b>
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LOC/DME BC RWY 13  
JAMESTOWN RGNL (JMS)

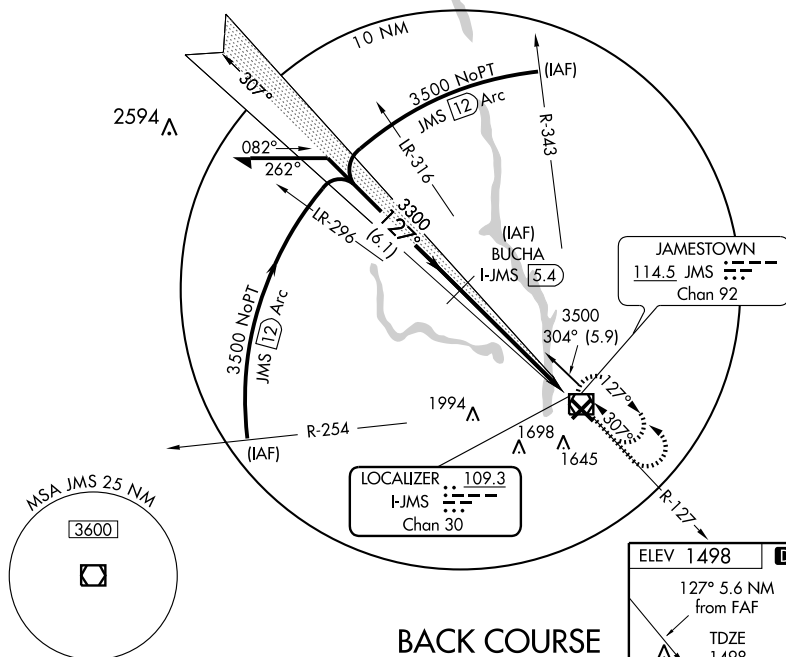
**T**  
**A** NA

**MISSED APPROACH:** Climb to 3500 then left turn direct JMS VOR/DME and hold.

ASOS  
118.425

MINNEAPOLIS CENTER  
124.2 270.3

UNICOM  
123.0 (CTAF) **L**



## BACK COURSE

Remain  
within 10 NM

BUCHA  
I-JMS 5.4

3500

JMS

3600  $\leftarrow$   $307^\circ$

Disregard glide slope indications 3  
Use I-JMS DME when on LOC course

$\frac{2.95^\circ}{\text{TCH } 51}$

I-JMS  
0.5

1

Diagram of a rectangular plate with a width of 1.9 nm and a height of 0.1 nm.

CATEGORY	A	B	C	D
S-13	1860-1 362 (400-1)			1860-1¼ 362 (400-1¼)
CIRCLING	1960-1 462 (500-1)		1960-1½ 462 (500-1½)	2060-2 562 (600-2)

ELEV 1498

127° 5.6 NM  
from EAF

TDZE  
1498

1516

 $\Lambda_{1.527}$ REIL Rwys 4, 13, and 22 **L**

MIRL Rwy 4-22 (L)

HIRL Rwy 13-31 

JAMESTOWN, NORTH DAKOTA

Amdt 7D 09295

46°56'N-98°41'W

JAMESTOWN RGNL (JMS)  
LOC/DME BC RWY 13

NC-1. 26 AUG 2010 to 23 SEP 2010

LOM JM  
**395**

APP CRS  
307°

Rwy Idg	<b>6502</b>
TDZE	<b>1495</b>
Apt Elev	<b>1498</b>

NDB RWY 31  
JAMESTOWN RGNL (JMS)

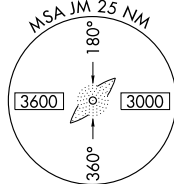
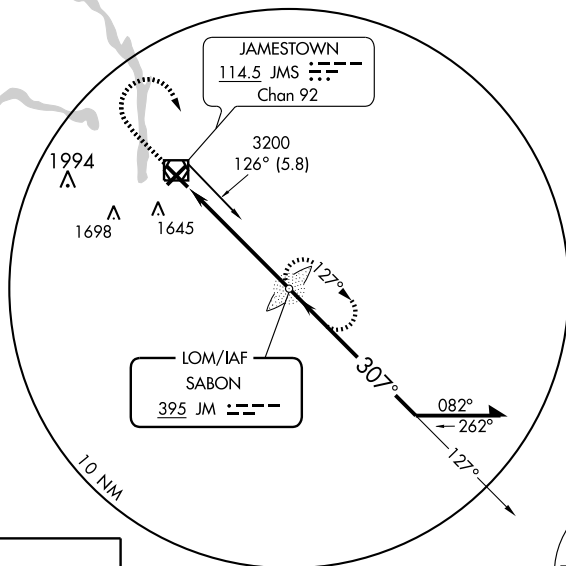


**MISSED APPROACH:** Climb to 3200 then right turn direct JM LOM and hold.

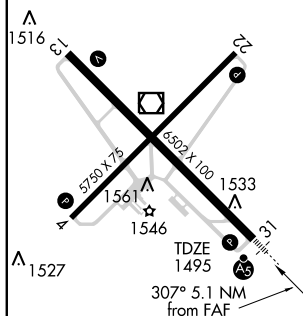
ASOS  
118,425

MINNEAPOLIS CENTER  
124.2 270.3

UNICOM  
123.0 (CTAF) **L**



ELEV 1498

REIL Rwys 4, 13, and 22 **L**MIRL Rwy 4-22 **L**

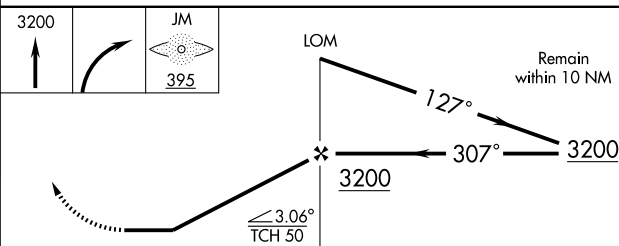
HIREL Rwy 13-31 0

FAF to MAP 5.1 NM

Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

JAMESTOWN, NORTH DAKOTA

Amdt 6C 09295



CATEGORY	A	B	C	D
S-31	1940-3/4 445 (500-3/4)			1940-1 1/4 445 (500-1 1/4)
CIRCLING	1960-1	462 (500-1)	1960-1 1/2 462 (500-1 1/2)	2060-2 562 (600-2)

JAMESTOWN RGNL (JMS)

NDB RWY 31

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

46°56'N-98°41'W





WAAS CH <b>65805</b> <b>W13A</b>	APP CRS <b>127°</b>	Rwy Idg TDZE Apt Elev	<b>6502</b> <b>1500</b> <b>1500</b>
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# RNAV (GPS) RWY 13

JAMESTOWN RGNL (JMS)

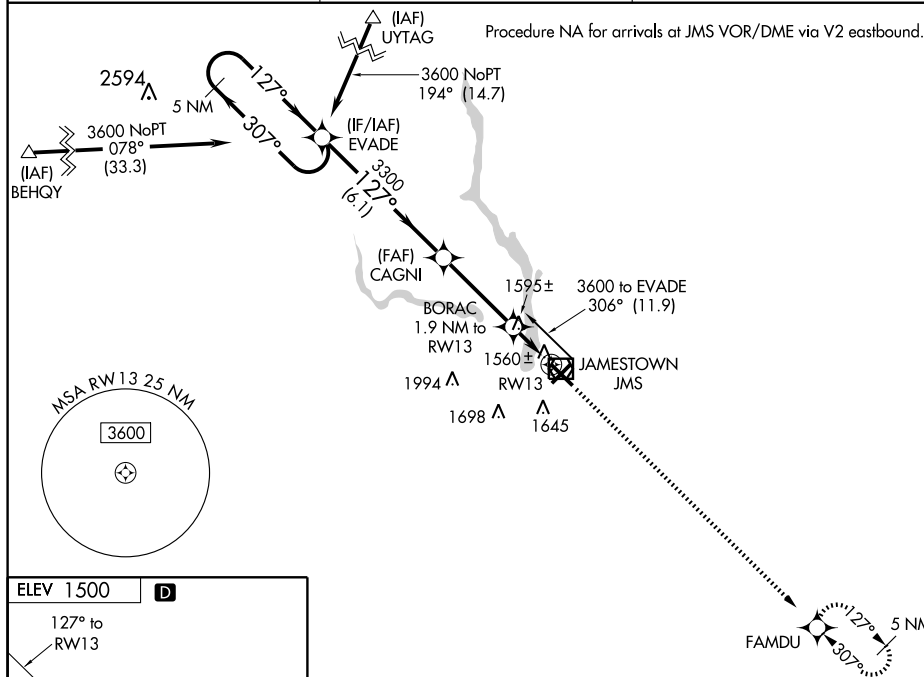
**T** Baro-VNAV NA when using Devils Lake altimeter setting.  
**A** For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 46°C (114°F).  
**W** DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.  
 VDP NA when using Devils Lake altimeter setting.  
 If local altimeter setting not received, use Devils Lake altimeter setting and increase all DAs 172 feet and all MDAs 180 feet.

MISSED APPROACH: Climb to 3500  
direct FAMDU and hold.

ASOS  
**118.425**

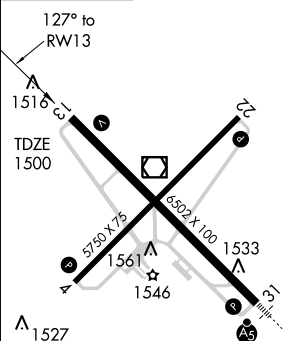
MINNEAPOLIS CENTER  
**124.2 270.3**

UNICOM  
**123.0 (CTAF) 0**



ELEV 1500

**D**



REIL Rwy 4, 13, and 22 **0**

MIRL Rwy 4-22 **0**

HIRL Rwy 13-31 **0**

5 NM Holding Pattern		EVADE		CAGNI		BORAC 1.9 NM to RW13		3500	FAMDU
3600		307°		127°		127°		*1 NM to RW13	
GS 3.00° TCH 52		3300		*2160		*LNAV only		RW13	
		6.1 NM		3.5 NM		0.9 NM		1 NM	
CATEGORY	A	B	C	D					
LPV DA	1787-1		287 (300-1)						
LNAV/VNAV DA	1820-1		320 (400-1)						
LNAV MDA	1860-1		360 (400-1)		1860-1¼		360 (400-1¼)		
CIRCLING	1960-1		460 (500-1)		1960-1½		2060-2		
					460 (500-1½)		560 (600-2)		

JAMESTOWN, NORTH DAKOTA

Orig 09295

46°56'-98°41'W

JAMESTOWN RGNL (JMS)  
**RNAV (GPS) RWY 13**

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

WAAS CH <b>70505</b> <b>W22A</b>	APP CRS <b>217°</b>	Rwy Idg TDZE Apt Elev	<b>5750</b> <b>1500</b> <b>1500</b>
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# RNAV (GPS) RWY 22

## JAMESTOWN RGNL (JMS)

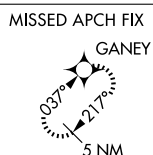
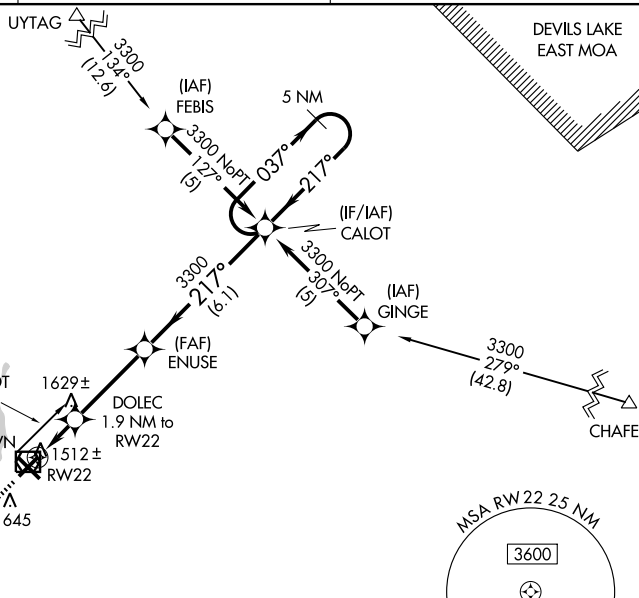
- ▼** Baro-VNAV NA when using Devils Lake altimeter setting.  
**▲** For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 46°C (114°F).  
**W** DME/DME RNP-0.3 NA. VDP NA when using Devils Lake altimeter setting. If local altimeter setting not received, use Devils Lake altimeter setting and increase all DAs 172 feet and all MDAs 180 feet.

MISSED APPROACH: Climb to 3700 direct GANEY and hold.

ASOS  
**118.425**

MINNEAPOLIS CENTER  
**124.2 270.3**

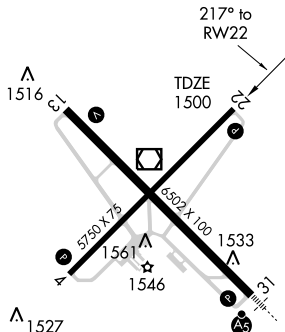
UNICOM  
**123.0 (CTAF) 0**



ELEV 1500

**D**

Procedure NA for arrivals at JMS VOR/DME on airway radials 034 CW 087.



<p>3700</p> <p>↑</p> <p>GANEY</p>		<p>VGSI and RNAV glidepath not coincident.</p>			
<p>DOLEC 1.9 NM to RW22</p>		<p>ENUSE</p>		<p>CALOT</p>	
<p>*LNAV only</p>		<p>*0.9 NM to RW22</p>		<p>5 NM Holding Pattern</p>	
<p>RW22</p>		<p>2140*</p>		<p>037° → 3300</p>	
<p>0.9</p>		<p>1 NM</p>		<p>3.5 NM</p>	
<p>6.1 NM</p>		<p>GS 3.00°</p>		<p>TCH 45</p>	
CATEGORY	A	B	C	D	
LPV DA		1750-1	250 (300-1)		
LNAV/VNAV DA		1772-1	272 (300-1)		
LNAV MDA		1800-1	300 (300-1)		
CIRCLING	1960-1	460 (500-1)	1960-1½ 460 (500-1½)	2060-2 560 (600-2)	

REIL Rwy 4, 13, and 22 **0**  
 MRL Rwy 4-22 **0**  
 HIRL Rwy 13-31 **0**

JAMESTOWN, NORTH DAKOTA  
 Orig 09295

46°56'N-98°41'W

JAMESTOWN RGNL (JMS)  
**RNAV (GPS) RWY 22**

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

WAAS CH <b>66014</b> <b>W31A</b>	APP CRS <b>307°</b>	Rwy Idg <b>6502</b> TDZE <b>1498</b> Apt Elev <b>1500</b>
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# RNAV (GPS) RWY 31

## JAMESTOWN RGNL (JMS)

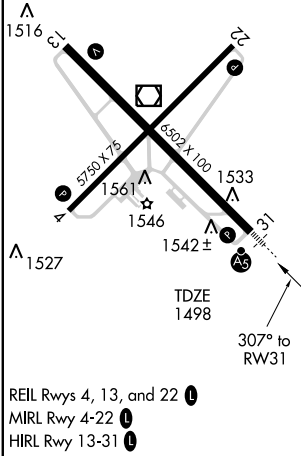
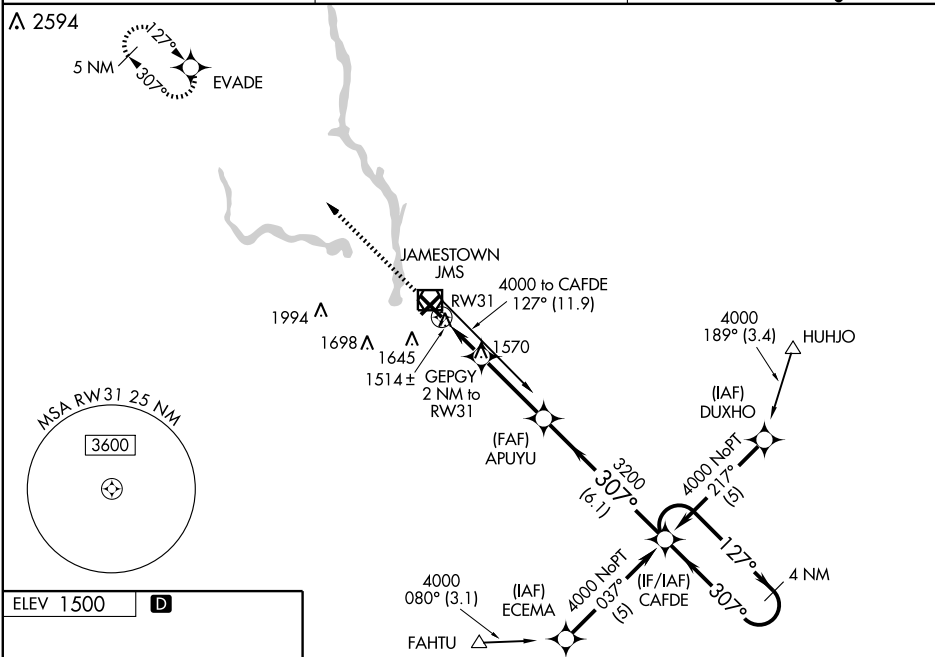
**▼** For inoperative MALS, increase LNAV Cat D visibility to 1½ mile. Baro-VNAV NA when using Devils Lake altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Devils Lake altimeter setting and increase all DA 172 feet, all MDA 180 feet, increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ½ mile, LNAV Cat C visibility ½ mile, Cat D visibility ¼ mile, Circling Cats C and D visibility ¼ mile. VDP NA with Devils Lake altimeter setting.




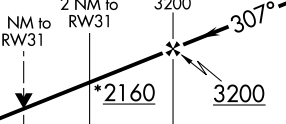
**▲** For inoperative MALS, increase LNAV Cat D visibility to 1½ mile. For inoperative table does not apply to LNAV Cats C and D when using Devils Lake altimeter setting.

**MALS**

**MISSED APPROACH:**  
Climb to 3600  
direct EVADE  
and hold.

ASOS <b>118.425</b>	MINNEAPOLIS CENTER <b>124.2 270.3</b>	UNICOM <b>123.0 (CTAF) 1</b>
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3600	EVADE	*LNAV only.		4 NM Holding Pattern
				
RW31		GEPGY 2 NM to RW31	APUYU 3200	CAFDE
*1 NM to RW31		*2160		127° → 4000 ← 307°
				GS 3.00° TCH 50
1 NM		1 NM	3.1 NM	6.1 NM
CATEGORY	A	B	C	D
LPV DA	1698-½ 200 (200-½)			
LNAV/ VNAV	1836-¾ 338 (400-¾)			
LNAV MDA	1880-½ 382 (400-½)			1880-1 382 (400-1)
CIRCLING	1960-1	460 (500-1)	1960-1½ 460 (500-1½)	2060-2 560 (600-2)

VOR/DME JMS  
**114.5**  
 Chan **92**

APP CRS  
**117°**

Rwy Idg  
 TDZE **1500**  
 Apt Elev **1500**

**VOR RWY 13**  
 JAMESTOWN RGNL (JMS)



If local altimeter setting not received, procedure NA.  
 Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 3500 then left turn direct JMS  
 VOR/DME and hold.

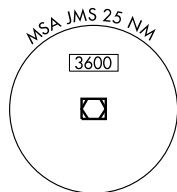
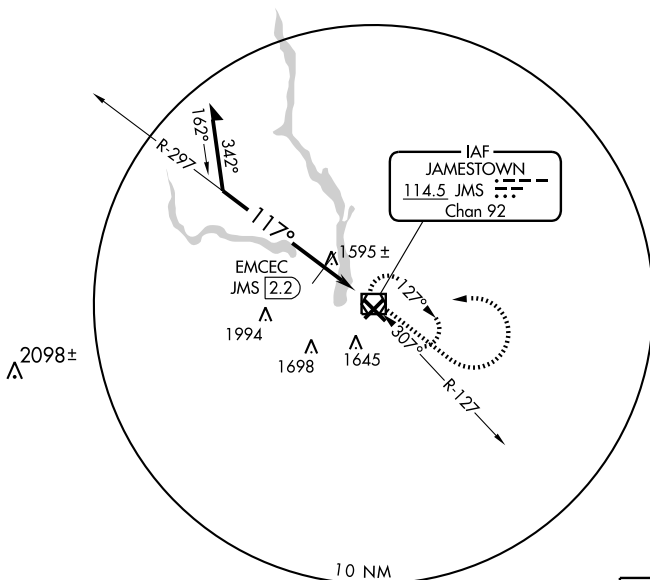
ASOS  
**118.425**

MINNEAPOLIS CENTER  
**124.2 270.3**

UNICOM  
**123.0** (CTAF) **0**

Procedure NA for arrivals at JMS VOR/DME via V561 northbound.

DEVILS LAKE  
 EAST MOA



Remain  
 within 10 NM

VOR/DME  
**6000**

3500

JMS

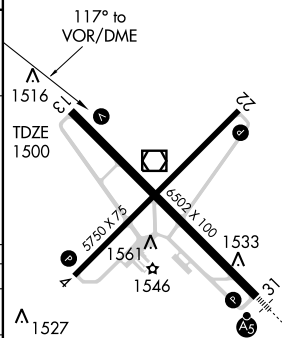
114.5

3200  
 2040  
 0.9 NM 1 NM

CATEGORY	A	B	C	D
S-13	2040-1	540 (600-1)	2040-1½ 540 (600-1½)	2040-1¾ 540 (600-1¾)
CIRCLING	2040-1	540 (600-1)	2040-1½ 540 (600-1½)	2060-2 560 (600-2)
EMCEC FIX MINIMUMS				
S-13	1860-1 360 (400-1)			1860-1¼ 360 (400-1¼)
CIRCLING	1960-1	460 (500-1)	1960-1½ 460 (500-1½)	2060-2 560 (600-2)

ELEV 1500

D



REIL Rwy 4, 13, and 22 **0**  
 MIRL Rwy 4-22 **0**  
 HIRL Rwy 13-31 **0**

VOR/DME JMS <b>114.5</b> Chan <b>92</b>	APP CRS <b>311°</b>	Rwy Idg TDZE <b>1498</b> Apt Elev <b>1500</b>	<b>6502</b> <b>1498</b> <b>1500</b>
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# VOR RWY 31

## JAMESTOWN RGNL (JMS)

▼ For inoperative MALS, increase AMUJO FIX minimums S-31 Cat D visibility to 1¼ mile.  
 ▲ VDP NA with Devils Lake altimeter setting. When local altimeter setting not received, use Devils Lake altimeter setting and increase all MDA 180 feet, increase S-31 Cats C and D visibility ¾ mile, Circling Cats C and D visibility ½ mile, increase AMUJO FIX minimums S-31 Cat C and Circling Cats C and D visibility ¼ mile.



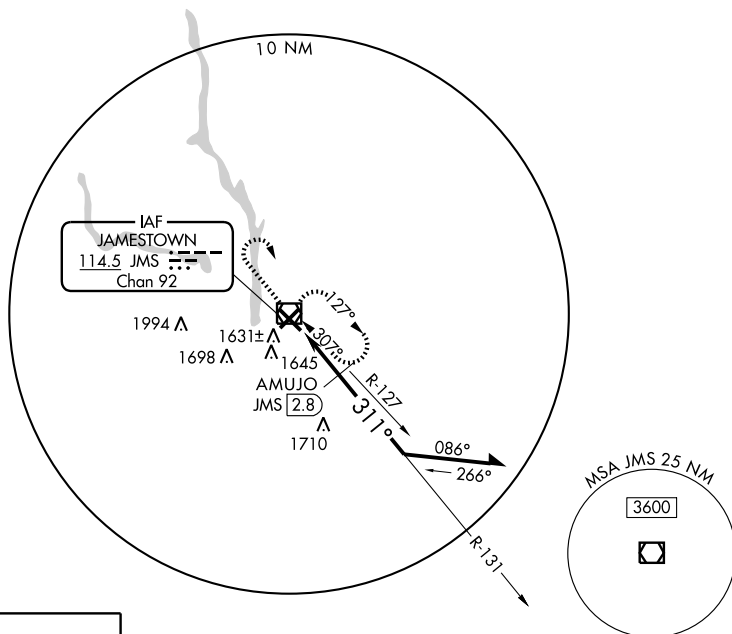
MISSED APPROACH:  
Climb to 3100 then  
right turn direct JMS  
VOR/DME and hold.

ASOS  
**118.425**

MINNEAPOLIS CENTER  
**124.2 270.3**

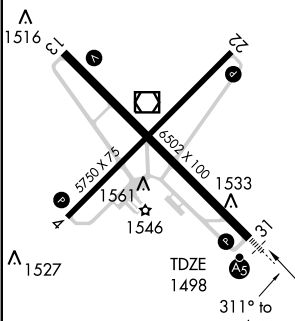
UNICOM  
**123.0 (CTAF) 0**

▲ 2594



ELEV 1500

D



REIL Rwy 4, 13, and 22  
 MIRL Rwy 4-22  
 HIRL Rwy 13-31

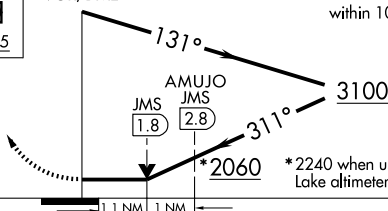
3100



JMS  
114.5

VOR/DME

Remain  
within 10 NM



\*2240 when using Devils  
Lake altimeter setting.

CATEGORY	A	B	C	D
S-31	2060-½	562 (600-½)	2060-1 562 (600-1)	2060-1¼ 562 (600-1¼)
CIRCLING	2060-1	560 (600-1)	2060-1½ 560 (600-1½)	2060-2 560 (600-2)
AMUJO FIX MINIMUMS				
S-31	1900-½	402 (400-½)	1900-¾ 402 (400-¾)	1900-1 402 (400-1)
CIRCLING	1960-1	460 (500-1)	1960-1½ 460 (500-1½)	2060-2 560 (600-2)

**JAMESTOWN RGNL** (JMS) 2 NE UTC-6(-5DT) N46°55.78' W98°40.69'

TWIN CITIES

1500 B S4 FUEL 100LL, JET A OX 3 Class I, ARFF Index A NOTAM FILE JMS

H-2H, L-14G

RWY 13-31: H6502X100 (ASPH-GRVD) S-130, D-160, 2S-175, 2D-250 HIRL

IAP

RWY 13: REIL. VASI(V4L)—GA 3.0° TCH 51'. Tree.

RWY 31: MALSR. PAPI(P4L)—GA 3.0° TCH 50'.

RWY 04-22: H5750X75 (ASPH) S-85, D-103, 2S-131, 2D-162 MIRL

RWY 04: REIL. PAPI(P4L)—GA 3.0° TCH 20'. Pole.

RWY 22: REIL. PAPI(P4L)—GA 3.0° TCH 20'.

#### RUNWAY DECLARED DISTANCE INFORMATION

RWY 04: TORA-5750 TODA-5750 ASDA-5750 LDA-5750

RWY 13: TORA-6502 TODA-6502 ASDA-6502 LDA-6502

RWY 22: TORA-5750 TODA-5750 ASDA-5750 LDA-5750

RWY 31: TORA-6502 TODA-6502 ASDA-6502 LDA-6502

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z. For attendant after hrs, call 701-952-1515. Fuel 100LL avbl 24 hrs with credit card. 24 hr pilot lounge avbl. Birds on and invof arpt. 48 hrs PPR for unscheduled air carrier ops with more than 30 passenger seats call arpt manager 701-252-0224/701-252-6466. Air carrier ops involving acft with more than 9 passengers are not authorized in excess of 15 minutes before or after scheduled arrival/departure times without prior coordination with arpt manager and confirmation that ARFF is avbl prior to landing or takeoff. Rwy 13 VASI restricted to +/- 8° either side of centerline. ACTIVATE MIRL Rwy 04-22, HIRL Rwy 13-31, MALSR Rwy 31, VASI Rwy 13, REIL Rwy 13, Rwy 04, and Rwy 22, and PAPI Rwy 04, Rwy 22 and Rwy 31—CTAF.

**WEATHER DATA SOURCES:** ASOS 118.425 (701) 251-9002.

HIWAS 114.5 JMS.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

RCO 123.6 122.2 (GRAND FORKS RADIO)

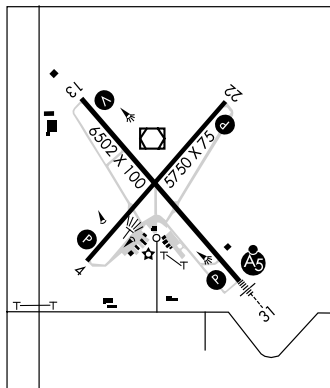
MINNEAPOLIS CENTER APP/DEP CON 124.2

**RADIO AIDS TO NAVIGATION:** NOTAM FILE JMS.

(L) VORW/DME 114.5 JMS Chan 92 N46°55.97' W98°40.73' at fld. 1493/10E. HIWAS.

SABON NDB (LOM) 395 JM N46°51.77' W98°34.84' 307° 5.7 NM to fld.

ILS/DME 109.3 I-JMS Chan 30 Rwy 31 Class IE. LOM SABON NDB. ILS unmonitored.



**KENIE** N47°00.56' W96°48.91' NOTAM FILE FAR.

TWIN CITIES

NDB (HW/LOM) 365 AA 174° 5.3 NM to Hector Intl.

L-14G

**KENMARE MUNI** (7K5) 1 SE UTC-6(-5DT) N48°40.06' W102°02.86'

BILLINGS

1962 B FUEL 100LL NOTAM FILE GFK

L-14F

RWY 08-26: H3700X60 (ASPH) S-12 MIRL

IAP

RWY 08: PAPI(P2L)—GA 3.0° TCH 25'. Pole.

RWY 26: PAPI(P2L)—GA 3.0° TCH 25'. Road.

**AIRPORT REMARKS:** Unattended. 24 hr self svc fuel avbl with credit card. Confirm winter conditions and snow removal with arpt manager 701-385-4029. Waterfowl on or invof arpt. Wildlife refuge located 3500' west. ACTIVATE MIRL Rwy 08-26 and PAPI Rwy 08 and Rwy 26—CTAF.

**COMMUNICATIONS:** CTAF 122.8

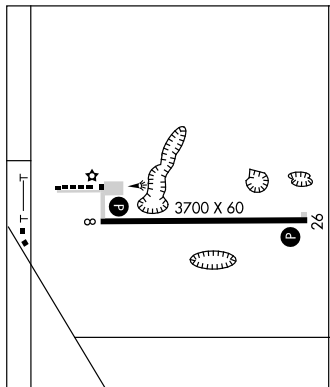
Ⓡ MINOT APP/DEP CON 119.6 (Opr 24 hrs from Mon 1300Z thru Sat 0500Z. Sat and Sun 1300-0500Z), other hrs ctc MINNEAPOLIS CENTER APP/DEP CON 127.6

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISN.

WILLSTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21'

W103°45.04' 057° 72.4 NM to fld. 2372/12E.

HIWAS.



APP CRS **260°**  
 Rwy Idg **3700**  
 TDZE **1960**  
 Apt Elev **1962**

# RNAV (GPS) RWY 26

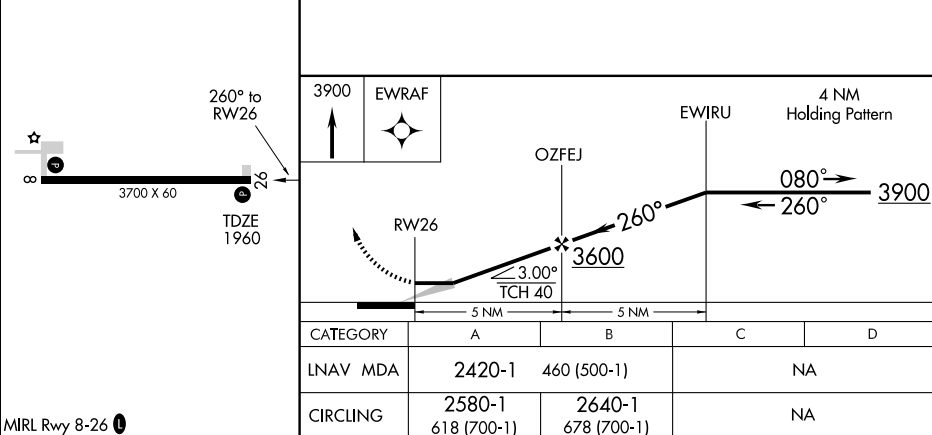
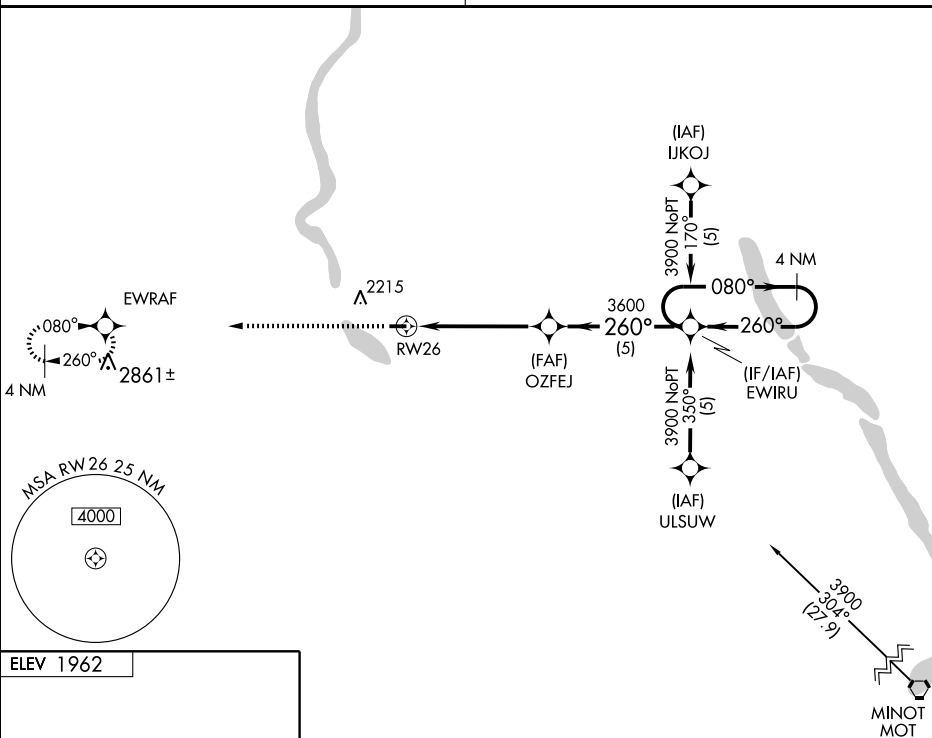
KENMARE MUNI (7K5)

**▲NA** Use Minot Intl altimeter setting.  
 GPS or RNP- 0.3 required.  
 DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3900  
 direct EWRAF WP and hold.

MINOT APP CON ★  
**119.6 363.8**

CTAF  
**122.8**



MIRL Rwy 8-26

KENMARE, NORTH DAKOTA

Orig 09295

48°40'N-102°03'W

KENMARE MUNI (7K5)

# RNAV (GPS) RWY 26

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

## KILLDEER

WEYDAHL FLD (9Y1) 2 NW UTC-7(-6DT) N47°23.57' W102°46.25'

BILLINGS

L-13E, 14F

2256 NOTAM FILE GFK

RWY 12-30: H4200X50 (ASPH-AFSC) S-5 LIRL

RWY 12: Fence. RWY 30: Trees.

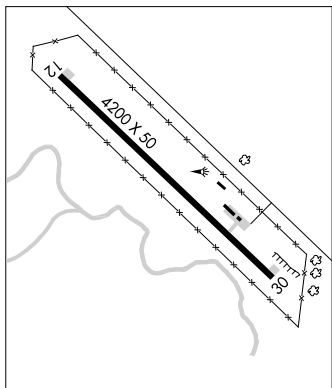
**AIRPORT REMARKS:** Unattended. To confirm irregular snow removal phone 701-764-5295/5678 or cell city maintenance 260-2317.

Rwy 12-30 asph sfc poor due to numerous cracks and depressions with sfc limited to small acft below 5000 lbs gross weight. Rwy 12-30 NSTD markings. Rwy 12-30 LIRL OTS indef.

ACTIVATE LIRL Rwy 12-30—CTAF.

**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE DIK.

DICKINSON (H) VORTACW 112.9 DIK Chan 76 N46°51.60' W102°46.41' 346° 32.0 NM to fld. 2520/14E. HIWAS.



## KINDRED

HAMRY FLD (K74) 1 E UTC-6(-5DT) N46°38.92' W96°59.94'

TWIN CITIES

L-14G

IAP

947 S4 FUEL 100LL NOTAM FILE GFK

RWY 11-29: H3300X60 (CONC) MIRL

RWY 11: PAPI(P2L)—GA 3.0° TCH 25'. RWY 29: PAPI(P2L)—GA 3.0° TCH 25'.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-0030Z†. For svc after hrs call 701-428-9990/3344. Self svc fuel avbl 24 hrs with credit card. Aircraft repair shop ctc 701-428-9954. Rwy 11-29 confirm with airport mgr for snow removal prior to use after snow storms. Deer on or invof arpt. Rwy 11-29 edges soft when wet. Rwy 11-29

ACTIVATE CTAF 122.9 for MIRL and PAPI after 0530Z†.

**COMMUNICATIONS:** CTAF 122.9

Ⓡ FARGO APP/DEP CON 120.4

Ⓡ MINNEAPOLIS CENTER APP/DEP CON 127.35

**RADIO AIDS TO NAVIGATION:** NOTAM FILE FAR.

FARGO (H) VORTACW 116.2 FAR Chan 109 N46°45.20' W96°51.08' 215° 8.8 NM to fld. 910/9E.

KULM MUNI (D03) 1 NE UTC-6(-5DT) N46°18.41' W098°56.33'

TWIN CITIES

1959 TPA—2759(800) NOTAM FILE GFK Not insp.

RWY 12-30: 2800X120 (TURF) LIRL

RWY 12: Trees. RWY 30: Tree.

**AIRPORT REMARKS:** Unattended. Waterfowl and deer on and invof arpt. Snow removal irregular. Confirm before use 701-647-2207/1950. Rwy 12 and Rwy 30 marked with white/black cones 400' apart along rwy edges. Multiple 320' wind turbine towers NE, E, SE, of rwy fm 1 NM and extending outward.

**COMMUNICATIONS:** CTAF 122.9

LAKOTA MUNI (5LØ) 1 SE UTC-6(-5DT) N48°01.74' W98°19.55'

TWIN CITIES

L-14G

1512 B NOTAM FILE GFK

RWY 15-33: H3500X60 (ASPH) S-12.5 MIRL

RWY 15: PAPI(P2L)—GA 3.0° TCH 25'. Road. RWY 33: PAPI(P2L)—GA 3.0° TCH 25'.

**AIRPORT REMARKS:** Unattended. Arpt CLOSED SS-SR and for night ops. Confirm snow removal and winter condition with city plant 701-247-2561/2704/3289 or 701-351-2775. 32' p-line marked with orange balls ½ NM from Rwy 33 thld on centerline. MIRL Rwy 15-33 and PAPI Rwy 15 and Rwy 33 operate dusk-0600Z†, after 0600Z†

ACTIVATE CTAF.

**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE DVL.

DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91' W98°54.75' 095° 24.1 NM to fld. 1448/7E.



APP CRS **114°**  
 Rwy Idg **3300**  
 TDZE **947**  
 Apt Elev **947**

# RNAV (GPS) RWY 11

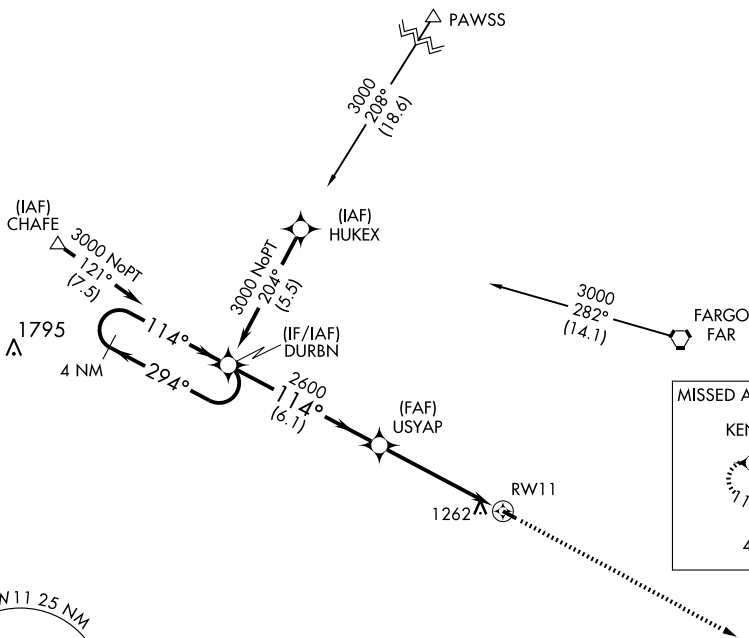
HAMRY FIELD (K74)

**▽** DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.  
**△** NA Use Fargo altimeter setting; when not received use Moorhead altimeter setting.

MISSED APPROACH:  
 Climb to 3000 direct KENNT and hold.

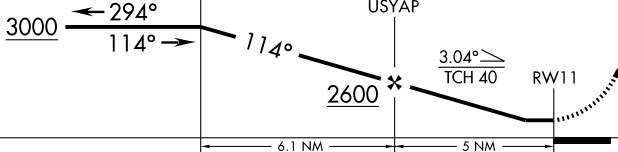
FARGO APP CON  
**120.4 377.15**

CTAF  
**122.9**



4 NM  
 Holding Pattern

VGSI and descent angles  
 not coincident.



ELEV 947

114° to  
 RWY 11

TDZE  
 947

3300 X 60

29

CATEGORY	A	B	C	D
LNNAV MDA	1620-1	673 (700-1)	NA	
CIRCLING	1660-1	713 (800-1)	NA	

MIRL Rwy 11-29

APP CRS	Rwy Idg	<b>3300</b>
<b>294°</b>	TDZE	<b>947</b>
	Apt Elev	<b>947</b>

## RNAV (GPS) RWY 29

HAMRY FIELD (K74)



DME/DME RNP-0.3 NA.  
Use Fargo altimeter setting; when not received use Moorhead altimeter setting.


MISSED APPROACH:  
Climb to 3000 direct DURBN and hold.

FARGO APP CON  
120.4 377.15

CTAF  
**122.9** 



FARGO  
FAR



300.0  
156.8  
(12.8)

Procedure NA for arrivals  
at FAR VORTAC  
via V344 northbound,  
V510 westbound.

(FAF)  
FIXER

(IAF)  
WIRDE  
^

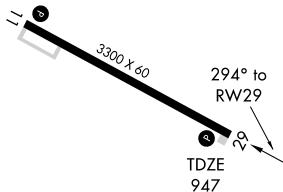
A1660

280  
294  
(6.1)

300

PLIST

ELEV 947



3000  
↑

DURBN

VGSI and descent angles  
not coincident.

KENNT

### Holding Pattern

FIXER

$$\angle 3.04^\circ$$

114°

-294-

- 3000



RW

2800

- 6.1 NM

CATEGORY	A	B	C	D
LNAV MDA	1440-1	493 (500-1)	NA	
CIRCLING	1660-1	713 (800-1)	NA	

MIRL Rwyys 11-29 **L**

RNAV (GPS) RWY 29

NC-1, 26 AUG 2010 to 23 SEP 2010

**LA MOURE ROTT MUNI** (4F9) 1 SE UTC-6(-5DT) N46°20.80' W98°17.02'

TWIN CITIES

1310 NOTAM FILE GFK

Rwy 16-34: H3750X50 (ASPH) LIRL (NSTD)

Rwy 16: Bldg. Rwy 34: Road.

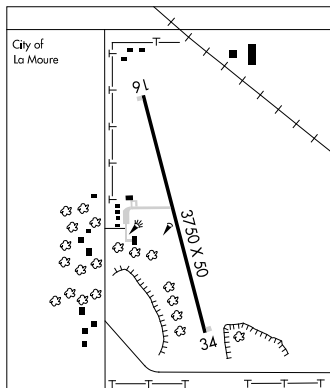
**AIRPORT REMARKS:** Attended Oct-Apr on call, May-Sep daltg hours. For attendant other times call 701-883-5047. For attendance Oct-Apr call 701-883-5047. Rwy 16-34 NSTD LIRL, has only green thld lgts. Rwy 16-34 LIRL only green thld lgts OTS indef. Confirm winter conditions and snow removal with arpt manager 701-883-5047 or 701-320-4189. Irrigator 15' AGL 200' east of north end of Rwy 16-34. ACTIVATE NSTD LIRL Rwy 16-34—CTAF.

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE JMS.

JAMESTOWN (L) VORW/DME 114.5 JMS Chan 92 N46°55.97'

W98°40.73' 145° 38.8 NM to fld. 1493/10E. HIWAS.



L-14G

## LANGDON

**ROBERTSON FLD** (D55) 1 WSW UTC-6(-5DT) N48°45.19' W98°23.62'

TWIN CITIES

1608 B FUEL 100LL NOTAM FILE GFK

Rwy 14-32: H3600X60 (ASPH) S-12.5 MIRL

Rwy 14: PAPI(P2L)—GA 3.0°TCH 25'. Trees.

Rwy 32: PAPI(P2L)—GA 3.0°TCH 25'. Road.

Rwy 08-26: 2010X100 (TURF)

Rwy 26: Road.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z. For fuel and svc, ctc arpt manager on 701-256-5900/3259 or 3639-370-2076. For services after hours ctc arpt manager 701-256-5900/3259. Rwy 08-26 CLOSED winters due to lack of snow removal. Confirm winter conditions/snow removal with arpt manager at 701-256-5900/3259/3639 or 370-2003/2076 cell. Large birds on and invof arpt Apr-Nov. Rwy 26 +372' twr-left; 11,000' from thld; 3500' right of extended centerline; apch ratio 29:1—also +192' twr 6300' from thld; apch ratio 32:1. Rwy 32 +80' P-line 3600' from thld; 800' left of extended centerline; apch ratio 42:1. Noise sensitive area NW quadrant of fld, avoid overflight. Midfield N/S twy has reflectors, surface condition poor with potholes. ACTIVATE MIRL Rwy 14-32—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.225 (701) 256-2121.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 132.15

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DVL.

DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91' W98°54.75' 021° 43.6 NM to fld. 1448/7E.

**LARIMORE MUNI** (2L1) 1 W UTC-6(-5DT) N47°54.42' W97°38.44'

TWIN CITIES

1130 NOTAM FILE GFK

Rwy 12-30: H2800X50 (ASPH) S-4 LIRL

Rwy 12: Trees. Rgt tfc. Rwy 30: Thld dsplcd 200'. Road.

**AIRPORT REMARKS:** Attended Mon-Sat on call. Snow removal irregular Oct thru May. For conditions report ctc arpt manager at 701-343-2065 or cell 218-779-4244. Rwy 12-30 soft shoulders after rains and during spring thaw. Rwy 12 and 30 nsd dsplcd thld painted yellow; basic markings.

**COMMUNICATIONS:** CTAF 122.9

APP CRS **133°**  
Rwy Idg **3600**  
TDZE **1606**  
Apt Elev **1608**

# RNAV (GPS) RWY 14

LANGDON/ ROBERTSON FIELD (D55)

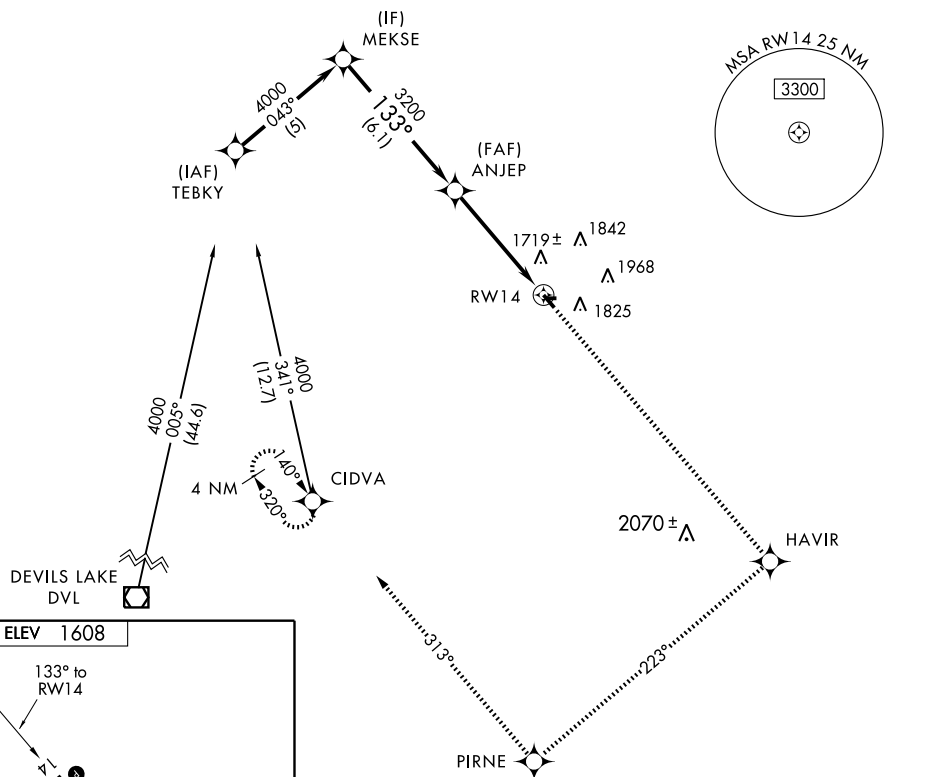
**▼** DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.  
**▲** When local altimeter setting not received use Devils Lake altimeter setting and increase all MDA 140 feet, increase LNAV and Circling Cat C visibility ½ mile, and Circling Cat B visibility ¼ mile.

**MISSED APPROACH:** Climb to 4000 direct HAVIR and via track 223° to PIRNE and via track 313° to CIDVA and hold.

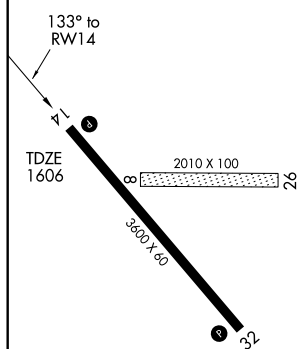
AWOS-3  
**118.225**

MINNEAPOLIS CENTER  
**132.15 269.6**

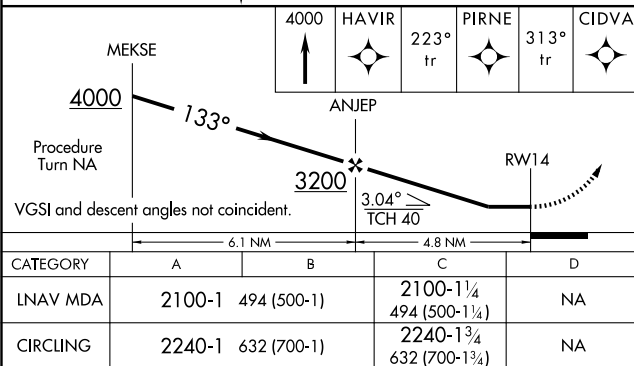
UNICOM  
**122.8 (CTAF) 0**



ELEV 1608



MIRL Rwy 14-32 0



LANGDON, NORTH DAKOTA

Orig 03JUN10

48°45'N - 98°24'W

LANGDON/ ROBERTSON FIELD (D55)

# RNAV (GPS) RWY 14

WAAS CH <b>50515</b> <b>W32A</b>	APP CRS <b>313°</b>	Rwy Idg <b>3600</b> TDZE <b>1608</b> Apt Elev <b>1608</b>
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# RNAV (GPS) RWY 32

LANGDON/ ROBERTSON FIELD (D55)

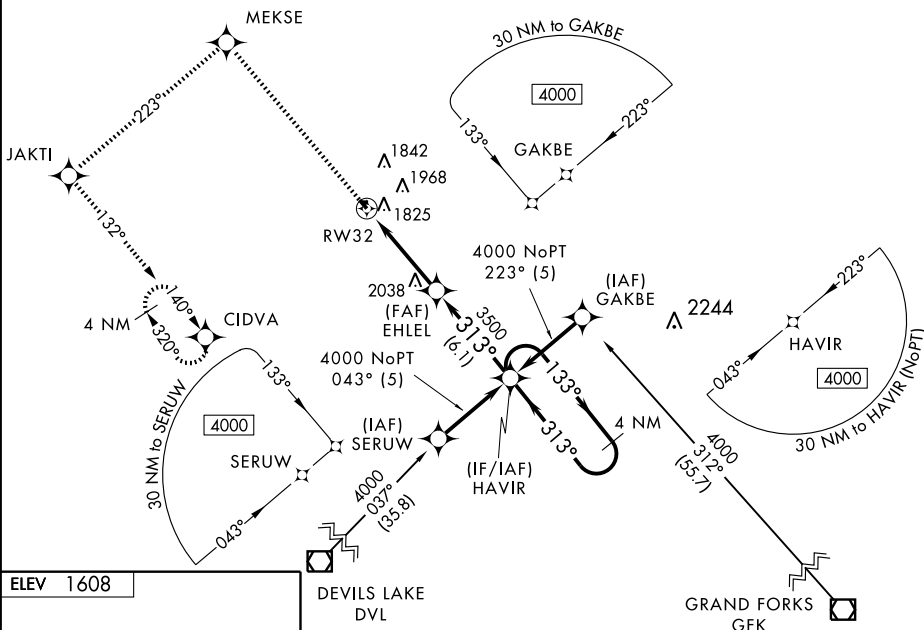
**▼** Baro-VNAV NA when using Devils Lake altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 54°C (130°F).  
**▲** DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received use Devils Lake altimeter setting and increase all DA 122 feet and all MDA 140 feet, increase LPV all Cats, LNAV and Circling Cat B visibility ¼ mile and LNAV/VNAV all Cats, LNAV and Circling Cat C visibility ½ mile.

**MISSED APPROACH:** Climb to 4000 direct MEKSE and via track 223° to JAKTI and via track 132° to CIDVA and hold.

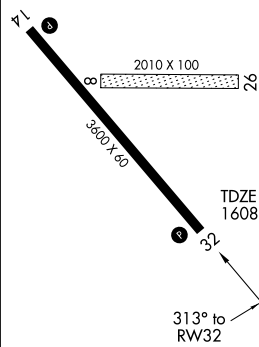
AWOS-3  
**118.225**

MINNEAPOLIS CENTER  
**132.15 269.6**

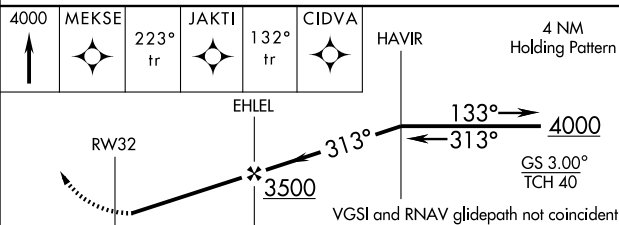
UNICOM  
**122.8 (CTAF) 0**



ELEV 1608



MRL Rwy 14-32 **0**



CATEGORY	A	B	C	D
LPV DA	1858-1	250 (300-1)		NA
LNAV/VNAV DA	2159-2	551 (600-2)		NA
LNAV MDA	2340-1	732 (800-1)	2340-2 732 (800-2)	NA
CIRCLING	2340-1	732 (800-1)	2340-2 732 (800-2)	NA

LANGDON, NORTH DAKOTA

Orig 03JUN10

48°45'N - 98°24'W

LANGDON/ ROBERTSON FIELD (D55)

# RNAV (GPS) RWY 32

**MADDOCK MUNI** (6D3) 1 N UTC-6(-5DT) N47°58.67' W99°31.62'

TWIN CITIES

1600 FUEL 100LL NOTAM FILE GFK

RWY 12-30: 3200X100 (TURF)

RWY 12: Road. RWY 30: Road.

**AIRPORT REMARKS:** Attended on call. For attendant call 701-438-2694. Deer and birds on or in/ovf arpt. No snow removal, confirm arpt condition during winter months. Midfield E/W asph twy open to west side apron and hangar.

**COMMUNICATIONS:** CTAF 122.9**MANDAN MUNI** (Y19) 4 S UTC-6(-5DT) N46°46.08' W100°53.66'

TWIN CITIES

1944 B S4 FUEL 100LL NOTAM FILE GFK

L-14P

RWY 13-31: H4399X75 (ASPH-AFSC) S-12.5 MIRL

IAP

RWY 13: REIL. VASI(V2L)—GA 2.5° TCH 40'. Trees.

RWY 31: REIL. VASI(V2L)—GA 3.0° TCH 40'. P-line.

RWY 04-22: 2921X140 (TURF) MIRL 0.7% up NE

RWY 04: Road.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-0200Z†, Sat-Sun on call.

For fuel 24 hour self svc with credit card or call 701-663-0669.

Confirm snow removal after major winter storms with arpt

manager 701-663-0669/3690 or 701-391-1394. Rwy 04-22

and Rwy 13-31 intersection transition across Rwy 04-22 uneven

and be alert for high speed acft movements. 200' tower located

9500' NW of Rwy 13-31. 120' tower located 5000' SW of Rwy

04-22. MIRL Rwy 13-31 and Rwy 04-22 preset on med to

increase ints ACTIVATE—CTAF. ACTIVATE VASI Rwy 13 and Rwy 31

and REIL Rwy 13 and Rwy 31—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.225 (701) 663-0271.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ BISMARCK APP/DEP CON 124.2 (1200-0600Z‡)

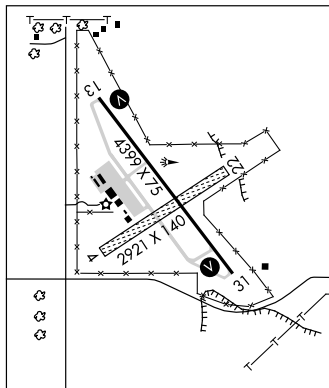
Ⓡ MINNEAPOLIS CENTER APP/DEP CON 125.6 (0600-1200Z‡)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BIS.

BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71' W100°39.92' 260° 9.5 NM to fld. 1841/12E.

HIWAS.

ASR (1200-0600Z‡)

**MAYVILLE MUNI** (D56) 1 S UTC-6(-5DT) N47°28.50' W97°20.02'

TWIN CITIES

975 B NOTAM FILE GFK

L-14G

RWY 17-35: H3200X56 (ASPH) S-4 LIRL

RWY 17: Road. RWY 35: P-line.

**AIRPORT REMARKS:** Attended Apr-Oct 1300-0100Z†, Nov-Mar/Mon-Fri on call. For attendant call arpt manager at 701-786-2065. Migratory waterfowl on and in/ovf arpt. Irregular snow removal confirm with city maintenance, call 701-786-2166. Arpt has numerous flight training ops daily from Grand Forks Intl arpt. Rwy 17 turn around caution broken asphalt ruts. Rwy 17-35 west side of rwy lgts OTS indef. Rwy 17-35 3050' lgtd ngt time due to Rwy 17 thld lights 150' inbound of thld. ACTIVATE LIRL Rwy 17-35—CATF.

**COMMUNICATIONS:** CTAF/UNICOM 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE GFK.

GRAND FORKS (H) VORW/DME 114.3 GFK Chan 90 N47°57.29' W97°11.12' 183° 29.4 NM to fld. 841/9E.

HIWAS.

**McCLUSKY MUNI** (7G2) 2 SW UTC-6(-5DT) N47°27.73' W100°29.24'

TWIN CITIES

1900 B NOTAM FILE GFK

RWY 13-31: 3100X80 (TURF) LIRL

RWY 31: Trail.

**AIRPORT REMARKS:** Unattended. Confirm irregular snow removal and winter conditions with arpt manager prior to use; snow removal emerg only; call 701-363-2265/2244/2708. Rwy 13-31 has numerous grass clumps. Twy lgtd on north side only. Rotating bcn OTS indef. ACTIVATE LIRL Rwy 13-31—CTAF.

**COMMUNICATIONS:** CTAF 122.9

VOR/DME BIS <b>116.5</b> Chan <b>112</b>	APP CRS <b>260°</b>	Rwy Idg <b>N/A</b> TDZE <b>N/A</b> Apt Elev <b>1944</b>
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## VOR or GPS-A

NA	Use Bismarck altimeter setting.
ASR	

**MISSED APPROACH:** Climbing right turn to 3500 direct BIS VOR/DME and hold.

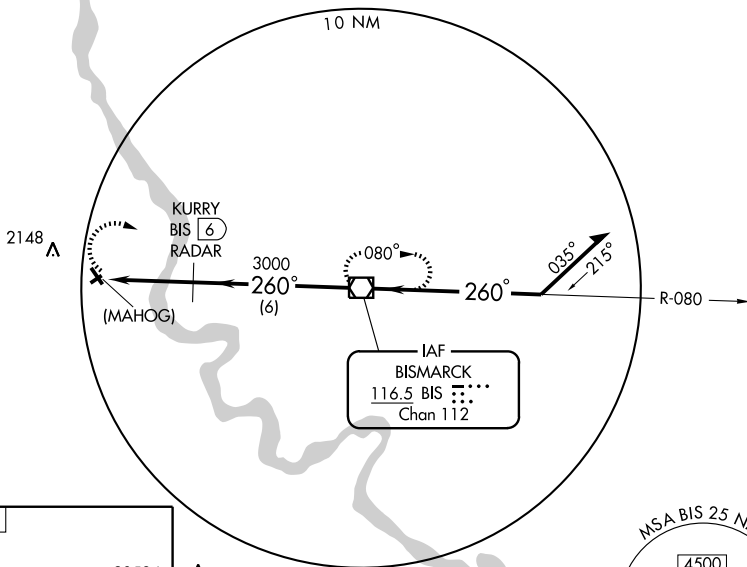
AWOS-3  
**118.225**

BISMARCK APP CON★  
126.3 298.9

UNICOM  
122.8 (CTAF) **L**

NoPT for arrivals on BIS VOR/DME airway radials 029 clockwise to 159.

## DME or RADAR REQUIRED




ELEV 1944

 $2059 \pm \Delta$ 

Λ 3424

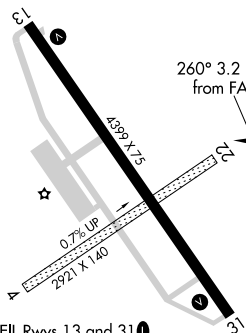
260° 3.2 NM  
from FAF

3500	BIS  <u>116.5</u>
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VOR/DME

Remain within 10 NM

within 10 NM



REIL Rwy 13 and 31 **L**  
MIRI Rwy 13-31 and 4-22 **L**

(MAHOG  
DISC 2.2

KURRY  
BIS 6  
RADAR

3100

1

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FAF to MAP 3.2 NM

Knots	60	90	120	150	180
Min:Sec	3:12	2:08	1:36	1:17	1:04

CATEGORY	A	B	C	D
CIRCLING	2420-1 478 (500-1)	2500-1 558 (600-1)	2500-1½ 558 (600-1½)	2500-2 558 (600-2)

MANDAN, NORTH DAKOTA

Amdt 1 09351

46°46'N-100°54'W

MANDAN MUNI (Y19)  
VOR or GPS-A

NC-1. 26 AUG 2010 to 23 SEP 2010

## AIRPORT DIAGRAM

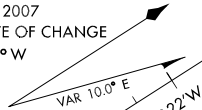
AFD-5013 [USAF]

MINOT AFB (KMIB)

MINOT, NORTH DAKOTA

ATIS ★ 278.8  
 MINOT TOWER ★  
 120.65 253.5  
 GND CON  
 134.0 275.8  
 CLNC DEL  
 326.2

JULY 2007  
 ANNUAL RATE OF CHANGE  
 0.2° W



FIELD  
 ELEV  
 1667

13,197 x 300

HOT CARGO  
 PAD

▲ 1809

1728 Lighted poles

CONTROL  
 TOWER

FIRE  
 STATION

BASE  
 OPS

★ 1769

Rwy 11-29  
 PCN 56 R/C/W/T

ELEV  
 1648

295.1°

1000  
 x 300

## AIRPORT DIAGRAM

MINOT, NORTH DAKOTA

MINOT AFB (KMIB)

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010



**MINOT AFB** (MIB)(KMIB) AF 10 N UTC-6(-5DT) N48°24.95' W101°21.48'

**BILLINGS**

1667 B TPA—See Remarks NOTAM FILE MIB Not insp.

**H-2G, L-14F**

**RWY 11-29:** H13197X300 (CONC-GRVD) PCN 55 R/C/W/T HIRL

**DIAP, AD**

**RWY 11:** ALSF1. PAPI(P4L)—GA 2.5°TCH 47'. **RWY 29:** ALSF1. PAPI(P4L)—GA 2.5°TCH 49'. Rgt tfc.

**MILITARY SERVICE:** Rotating bcn not visible from east. **JASU** 9(MD-3A) 2(M32A-60A) (MA-1A) **FUEL** J8 **FLUID** SP  
PRESAIR De-Ice—expect possible delay weekends. LOX LH0X LHNIT **OIL** O-133-148 JOAP Rqr 2 hr prior  
notice weekends. **TRAN ALERT** Opr weekdays 1330-2330Z±, clsd Sat and Sun.

**MILITARY REMARKS:** Opr Mon-Thu 1300-0500Z±, Fri 1300-0400Z±, clsd Sat, Sun and holidays. Clsd at 0400Z± prior  
holidays that falls on weekday. See FLIP AP/1 Supplementary Arpt Information. **RSTD** Fighter and acft larger than  
a DC 9 prohibited fm using skid row/DV ramp. PPR ctc afld management 72 hr prior notice DSN 453-2347,  
C701-723-2347. Acft with TT type ldg gear with max acft weight 477,000 pounds or more must ctc afld  
management prior to arrival or departure. PPR all acft including distinguished visitor, haz cargo and Aero-Medical  
Evacuation regardless of affiliation for notification and coordination purposes. All remain over night tran crews  
must ctc Command Post with billeting arrangements. All VIP acft ctc Command Post no later than 60 NM out.  
Avoid overflight blo 4200' of airfield when clsd, excluding published instrument approach or departure  
procedure. **CAUTION**—Bird haz. Copter VFR opr in eff 24 hr in designated test area 2400' and blo located north of  
rwy. Uncontrolled vehicle ttc on twy. High potential for hydroplaning first/last 3000' of rwy when rwy sfc  
condition present. **TFC** PAF TPA—Rectangular 2900(1233), multi-engine jet rgt tfc Rwy 29; overhead 3400(1733),  
rgt break Rwy 11. **NS ABTMT** ACC quiet hr policy 0430-1200Z±. **MISC** From the official METRO observation point,  
only south through west of the horizon is unobstructed. All other quadrants contain obstructions, restricting the  
capability to continually view and evaluate weather conditions. Workload permitting, ATC and METRO share  
significant changes in weather conditions, runway information, equipment status, and observed pilot reports.  
Arpt bcn not visible from the east. Afld Wx services element hrs are same as published afld hrs. Augmented wx  
observed when the following conditions observed or expected: tornado, funnel clouds, waterspout, hail greater  
than or equal to 1/2 inch, or volcanic ash.

**COMMUNICATIONS:** SFA PTD 372.2 ATIS 278.8 (Opr during local flying.)

Ⓡ **APP CON** 119.6 363.8 (Opr 24 hrs, from Mon 1300Z± thru Sat 0500Z±. Sat and Sun 1300-0500Z±. See FLIP  
AP/1 Supplementary Arpt Remark.), other times ctc

**MINNEAPOLIS CENTER APP CON** 127.6 279.6

**TOWER** 120.65 236.6 253.5 (Mon-Thu 1300-0500Z±, Fri 1300-0400Z±, clsd Sat, Sun and holidays. Clsd at  
0400Z± prior holidays that falls on weekday. See FLIP AP/1 Supplementary Arpt Remark.) **GND CON** 134.0  
275.8 **CLNC DEL** 326.2

Ⓡ **DEP CON** 119.6 259.1 (Opr 24 hrs, from Mon 1300Z± thru Sat 0500Z±. Sat and Sun 1300-0500Z±. See FLIP  
AP/1 Supplementary Arpt Remark.), other times ctc

**MINNEAPOLIS CENTER APP/DEP CON** 127.6 279.6

**COMD POST** (Call RAYMOND 12) 321.0 **PMSV METRO** 342.5 Full wx svc avbl, DSN 453-6385 C701-723-6385,  
other times DSN 576-9755/9702 C618-256-9755/9702.

**AIRSPACE:** CLASS D svc Mon-Thu 1300-0500Z±, Fri 1300-0400Z±, clsd Sat, Sun and holidays, other times CLASS G.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE GFK.

**DEERING (H) TACAN** Chan 96 MIB (114.9) N48°24.92' W101°21.97' at fld. 1668/10E. No NOTAM MP  
Wed 1530-1730Z± (1500/3+1).

**ILS** 109.9 I-MJW Rwy 11. Class IT. No NOTAM MP Mon 1500-1700Z±, Thu 1300-1500Z±.

**ILS** 109.9 I-MIB Rwy 29. Class IT. No NOTAM MP Mon 1500-1700Z±, Thu 1300-1500Z± (1500/3+1).

**ASR** Opr 24 hrs from Mon 1300Z± thru Sat 0500Z± Sat and Sun 1300-0500Z±. No NOTAM MP Tue, Fri  
1230-1430Z± (1500/3+1).

TACAN MIB Chan <b>96</b>	APCH CRS <b>122°</b>	Rwy Idg <b>13,197</b> TDZE <b>1667</b> Arpt Elev <b>1667</b>
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AL-5013 [USAF]

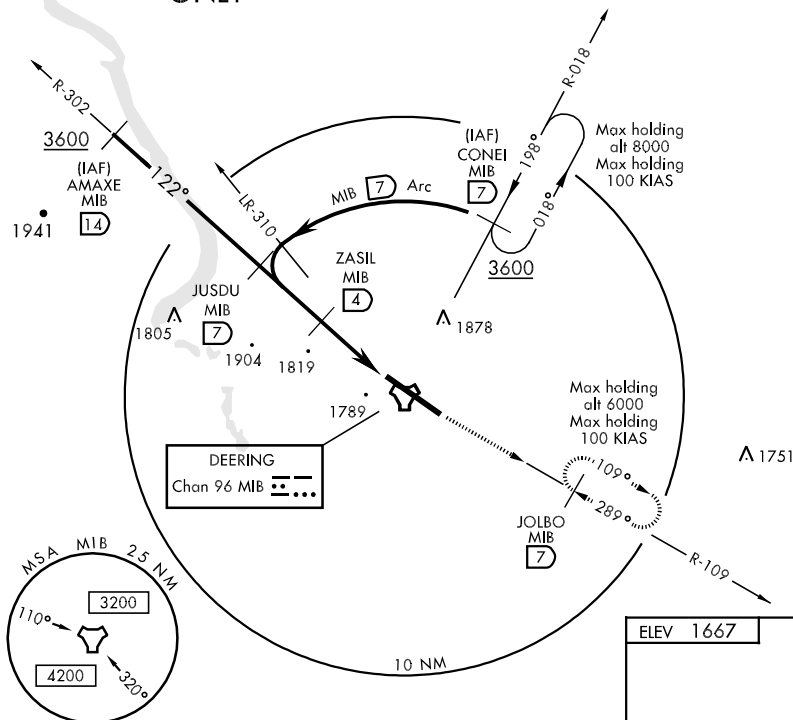
MINOT AFB (KMIB)

\* When ALS inop, increase RVR to 24 and vis to ½ mile.

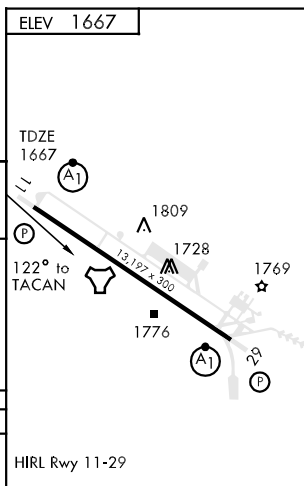
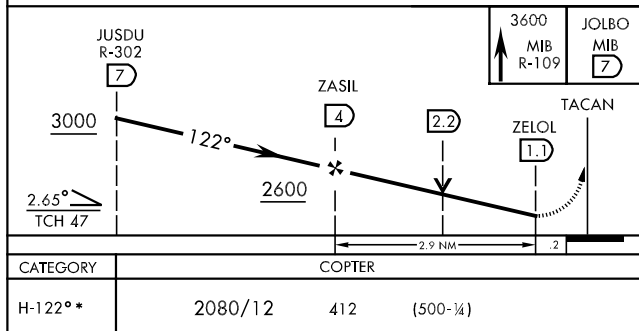


MISSED APPROACH: Climb to 3600 via MIB R-109 direct JOLBO MIB 7 DME and hold.

ATIS ★ <b>278.8</b>	MINOT APP CON <b>119.6 363.8</b>	MINOT TOWER ★ <b>120.65 253.5</b>	GND CON <b>134.0 275.8</b>	CLNC DEL <b>326.2</b>
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COPTER  
ONLY

EMERG SAFE ALT 100 NM 4800



TACAN MIB Chan <b>96</b>	APCH CRS <b>289°</b>	Rwy Idg <b>13,197</b> TDZE <b>1644</b> Arpt Elev <b>1667</b>
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AL-5013 [USAF]

MINOT AFB (KMIB)

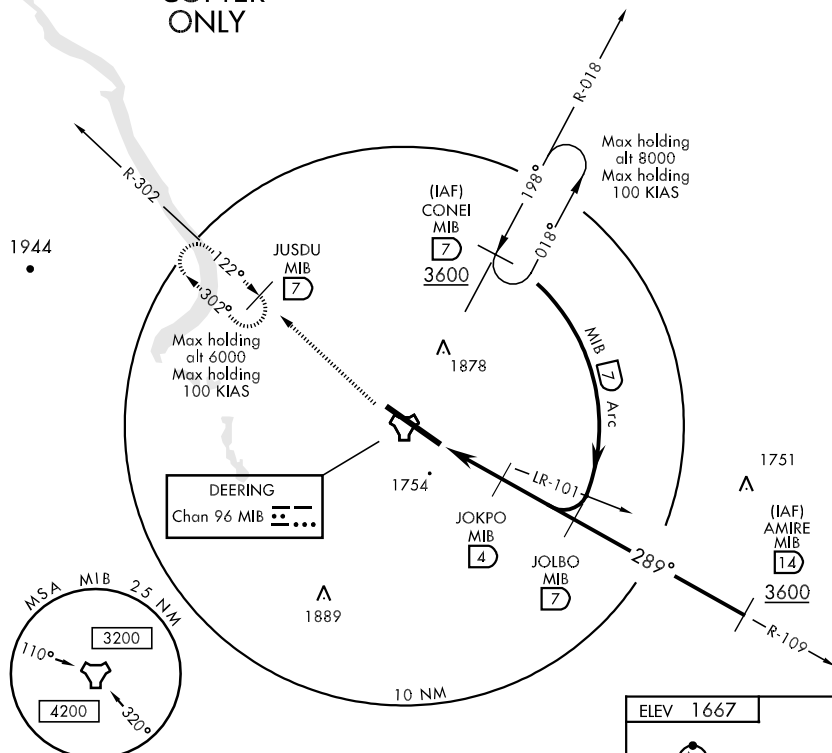
\* When ALS inop, increase RVR to 24 and vis to ½ mile.



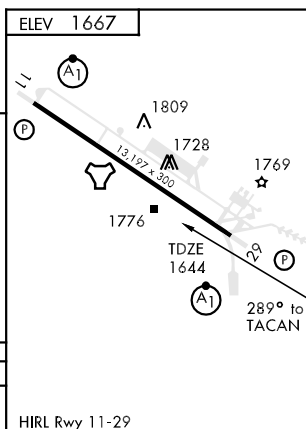
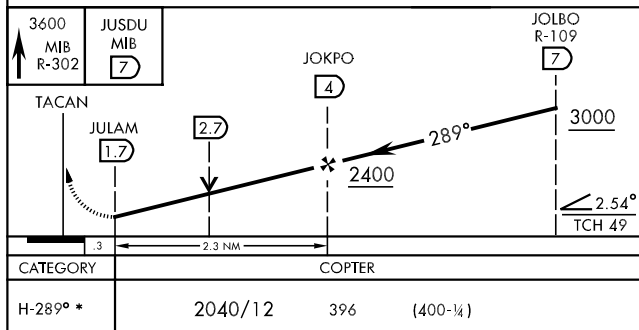
MISSED APPROACH: Climb to 3600 via MIB R-302 direct JUSDU MIB 7 DME and hold.

ATIS ★ <b>278.8</b>	MINOT APP CON <b>119.6 363.8</b>	MINOT TOWER ★ <b>120.65 253.5</b>	GND CON <b>134.0 275.8</b>	CLNC DEL <b>326.2</b>
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COPTER ONLY



EMERG SAFE ALT 100 NM 4800



HIRL Rwy 11-29

LOC I-MJW **109.9** APCH CRS **115°** Rwy ldg **13,197**  
THRE **1667** Arpr Elev **1667**

JAL-5013 [USAF]

MINOT AFB (KMIB)

\* When ALS inop, increase RVR to 40 and vis to  $\frac{3}{4}$  mile.  
\*\* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile,  
CAT CDE vis to  $1\frac{1}{4}$  miles.

ALSF-1



MISSED APPROACH: Climb to 5000 via  
MIB TACAN R-109 direct AMIRE and hold.

ATIS ★  
**278.8**

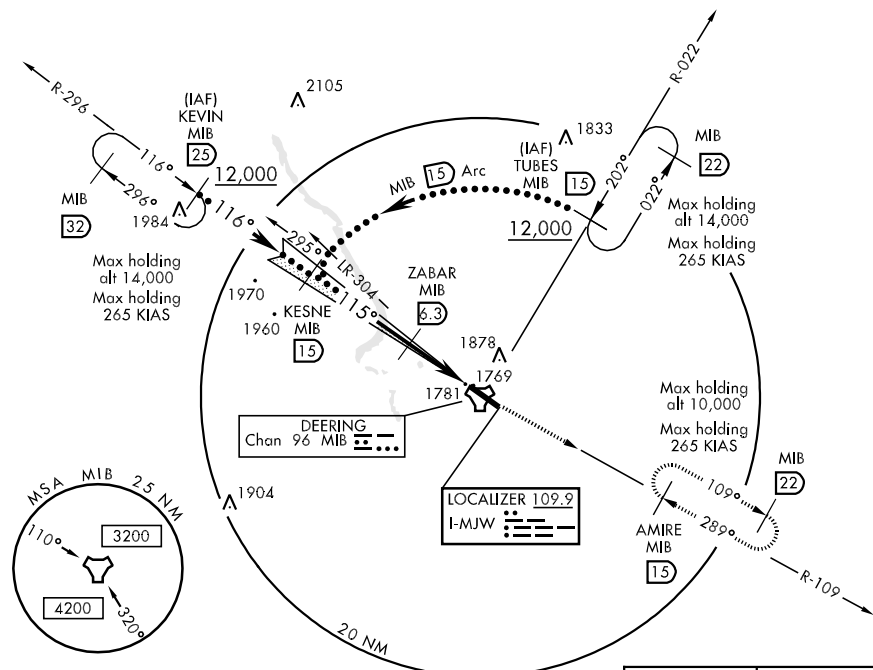
MINOT APP CON  
**119.6 363.8**

MINOT TOWER ★  
**120.65 253.5**

GND CON  
**134.0 275.8**

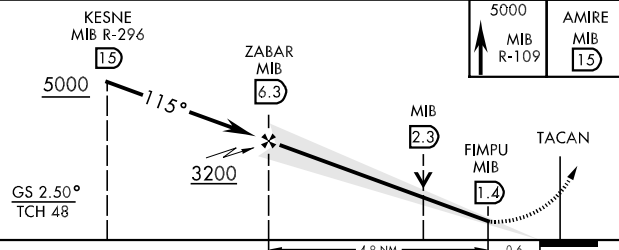
CLNC DEL  
**326.2**

\*\*\* Circling not authorized N of Rwy 11-29.



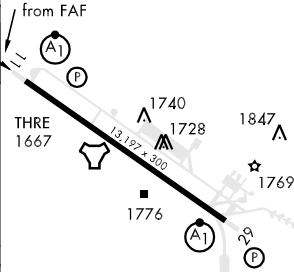
EMERG SAFE ALT 100 NM 4800

A 3149



ELEV 1667

115° 5.5 NM from FAF



HIRL Rwy 11-29

CATEGORY	A	B	C	D	E
S-ILS 11 *	1867/24		200	(200-1/2)	
S-LOC 11 **	2100/24	433 (500-1/2)	2100/40	433	(500-3/4)
CIRCLING ***	2160-1	493 (500-1)	2160-1 1/2 493 (500-1 1/2)	2220-2 553 (600-2)	2240-2 573 (600-2)

LOC FAF to MAP 4.9 NM

Knots	60	90	120	150	180
Min:Sec	4:54	3:16	2:27	1:58	1:38

LOC I-MIB <b>109.9</b>	APCH CRS <b>295 °</b>	Rwy ldg <b>13,197</b> THRE Arpt Elev <b>1667</b>
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AL-5013 [USAF]

MINOT AFB (KMIB)

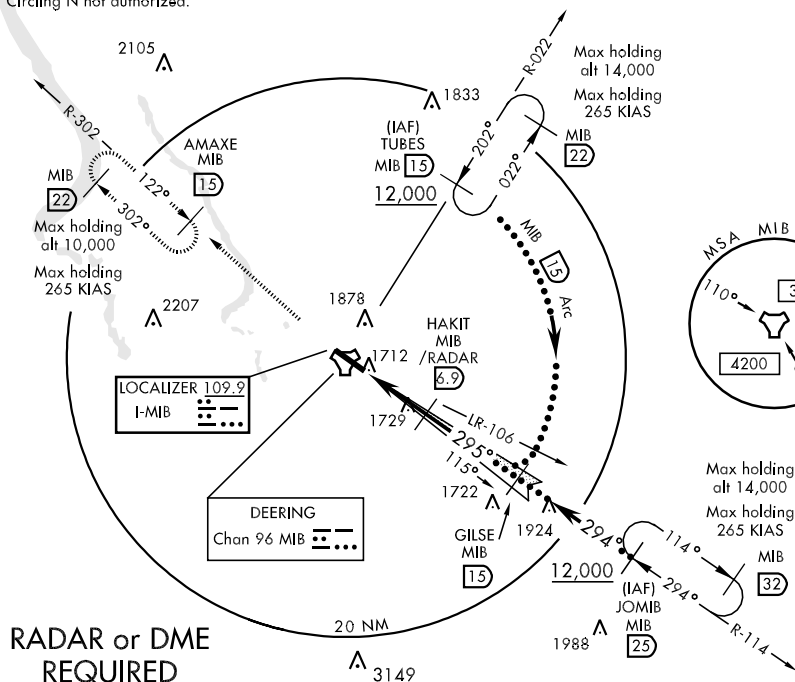
- \* When ALS inop, increase CAT ABCDE RVR to 40 and vis to  $\frac{3}{4}$  mile.  
 \*\* When ALS inop, increase CAT ABCDE RVR to 55 and vis to 1 mile.



MISSED APPROACH: Climb to 5000 via  
MIB TACAN R-302 direct AMAXE and hold.

ATIS ★ <b>278.8</b>	MINOT APP CON <b>119.6 363.8</b>	MINOT TOWER ★ <b>120.65 253.5</b>	GND CON <b>134.0 275.8</b>	CLNC DEL <b>326.2</b>
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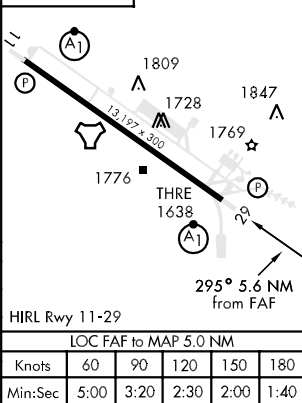
\*\*\* Circling N not authorized.



EMERG SAFE ALT 100 NM 4800

5000 MIB R-302	AMAXE MIB 15					HAKIT MIB /RADAR 6.9	GILSE R-115 15	5000	GS 2.50° TCH 49	
TACAN	FAREG 1.9	2.7				295°				
.6		5.0 NM				3200				
CATEGORY	A		B		C		D		E	
S-ILS 29 *			1838/24		200		(200-½)			
S-LOC 29 **	2000/24		362 (400-½)		2000/35		362 (400-¾)			
CIRCLING ***	2160-1		493 (500-1)		2160-1½ 493 (500-1½)		2220-2 553 (600-2)		2240-2 573 (600-2)	

ELEV 1667



TACAN MIB Chan **96**  
 APCH CRS **122°**  
 Rwy ldg **13,197**  
 THRE **1667**  
 Arpr Elev **1667**

JAL-5013 [USAF]

MINOT AFB (KMIB)

\* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile,  
 CAT CDE vis to 1¼ miles.  
 \*\* Circling not authorized N of Rwy 11-29.

ALSF-1  
 (A1)

MISSED APPROACH: Climb to 5000 via  
 MIB TACAN R-109 direct AMIRE and hold.

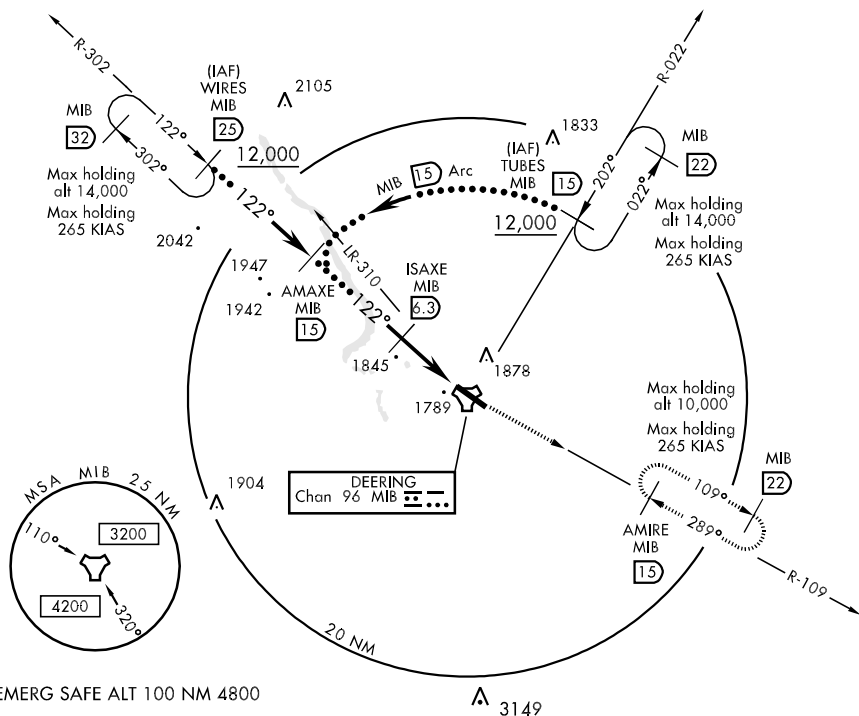
ATIS ★  
**278.8**

MINOT APP CON  
**119.6 363.8**

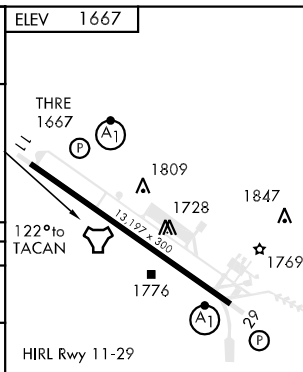
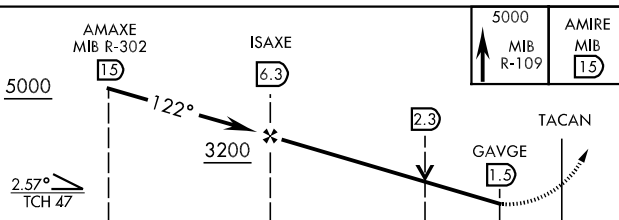
MINOT TOWER ★  
**120.65 253.5**

GND CON  
**134.0 275.8**

CLNC DEL  
**326.2**



EMERG SAFE ALT 100 NM 4800



CATEGORY	A	B	C	D	E
S-11 *	2100/24 433 (500-½)		2100/40 433 (500-¾)		
CIRCLING **	2160-1 493 (500-1)		2160-1½ 493 (500-1½)	2220-2 553 (600-2)	2240-2 573 (600-2)

TACAN MIB  
Chan **96**

APCH CRS  
**289°**

Rwy ldg **13,197**  
THRE **1638**  
Arpt Elev **1667**

AL-5013 [USAF]

MINOT AFB (KMIB)

- \* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile,  
CAT CDE vis to 1 $\frac{3}{8}$  miles.
- \*\* Circling not authorized N of Rwy 11-29.



MISSED APPROACH: Climb to 5000 via  
MIB TACAN R-302 direct AMAXE and hold.

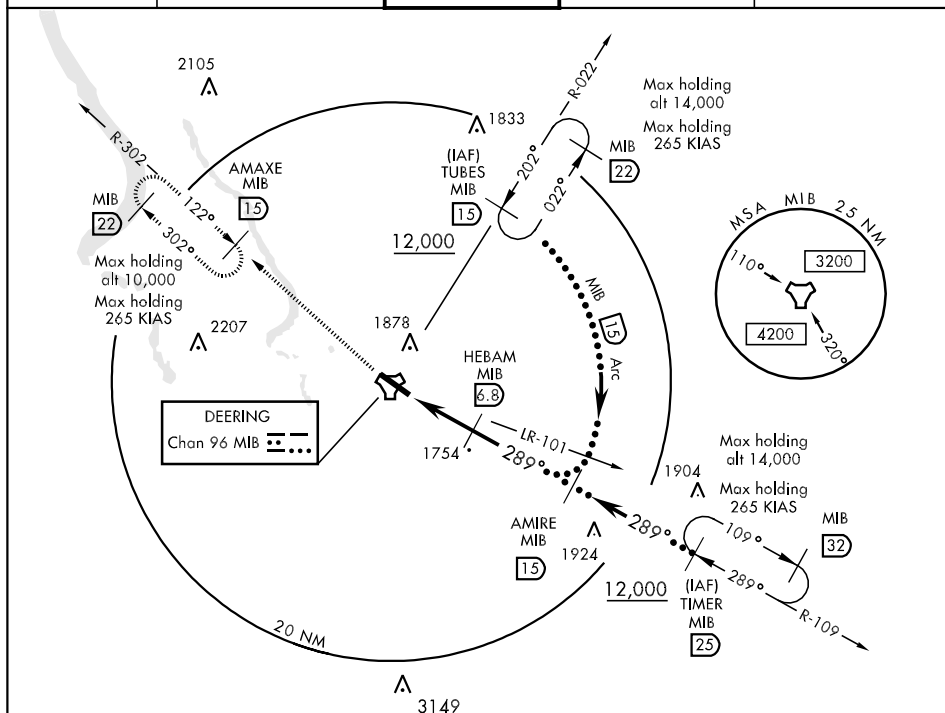
ATIS ★  
**278.8**

MINOT APP CON  
**119.6 363.8**

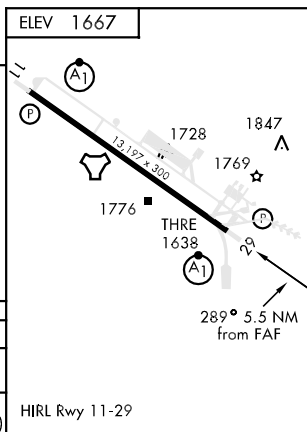
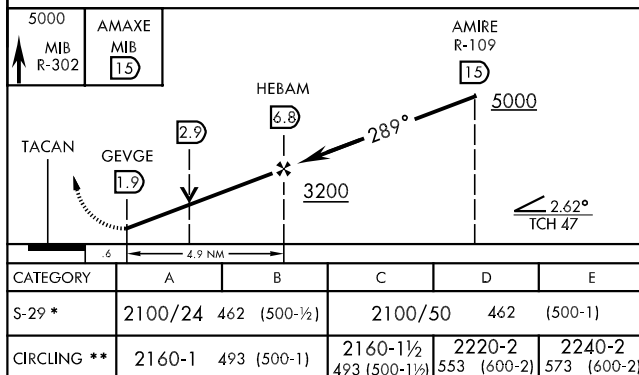
MINOT TOWER ★  
**120.65 253.5**

GND CON  
**134.0 275.8**

CLNC DEL  
**326.2**

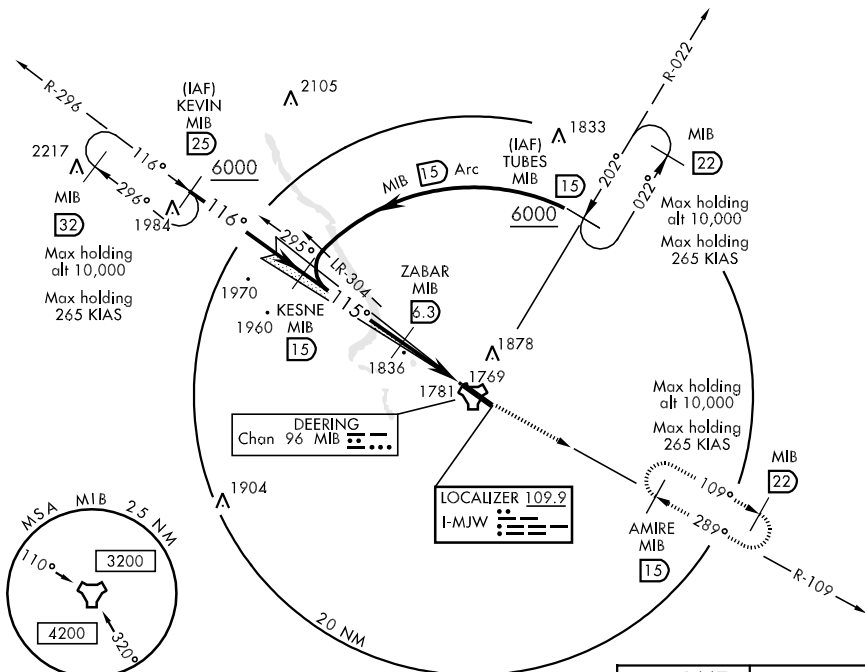


EMERG SAFE ALT 100 NM 4800



LOC I-MJW <b>109.9</b>	APCH CRS <b>115°</b>	Rwy Idg <b>13,197</b> THRE <b>1667</b> Arpt Elev <b>1667</b>	JAL-5013 [USAF]	MINOT AFB (KMIB)
* When ALS inop, increase RVR to 40 and vis to $\frac{3}{4}$ mile. ** When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to $1\frac{1}{4}$ miles.			ALSF-1 	MISSED APPROACH: Climb to 5000 via MIB TACAN R-109 direct AMIRE and hold.
ATIS ★ <b>278.8</b>	MINOT APP CON <b>119.6 363.8</b>	MINOT TOWER ★ <b>120.65 253.5</b>	GND CON <b>134.0 275.8</b>	CLNC DEL <b>326.2</b>

\*\*\* Circling not authorized N of Rwy 11-29.



EMERG SAFE ALT 100 NM 4800

3149 A

KESNE MIB R-296 5000 GS 2.50° TCH 48 115° 3200 4.9 NM 0.6					5000 MIB R-109 AMIRE MIB (15)	ELEV 1667 115° 5.5 NM from FAF THRE 1667 1740 1728 1847 1769 1776 13,197 + 300 29				
CATEGORY	A	B	C	D	E	HIRL Rwy 11-29				
S-ILS 11 *	1867/24					LOC FAF to MAP 4.9 NM				
S-LOC 11 **	2100/24	433 (500-1/2)	2100/40	433 (500-3/4)		Knots	60	90	120	150
CIRCLING ***	2160-1	493 (500-1)	2160-1 1/2 493 (500-1 1/2)	2220-2 553 (600-2)	2240-2 573 (600-2)	Min:Sec	4:54	3:16	2:27	1:58



LOC I-MIB <b>109.9</b>	APCH CRS <b>295°</b>	Rwy Idg <b>13,197</b> THRE <b>1638</b> Arpt Elev <b>1667</b>
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AL-5013 [USAF]

MINOT AFB (KMIB)

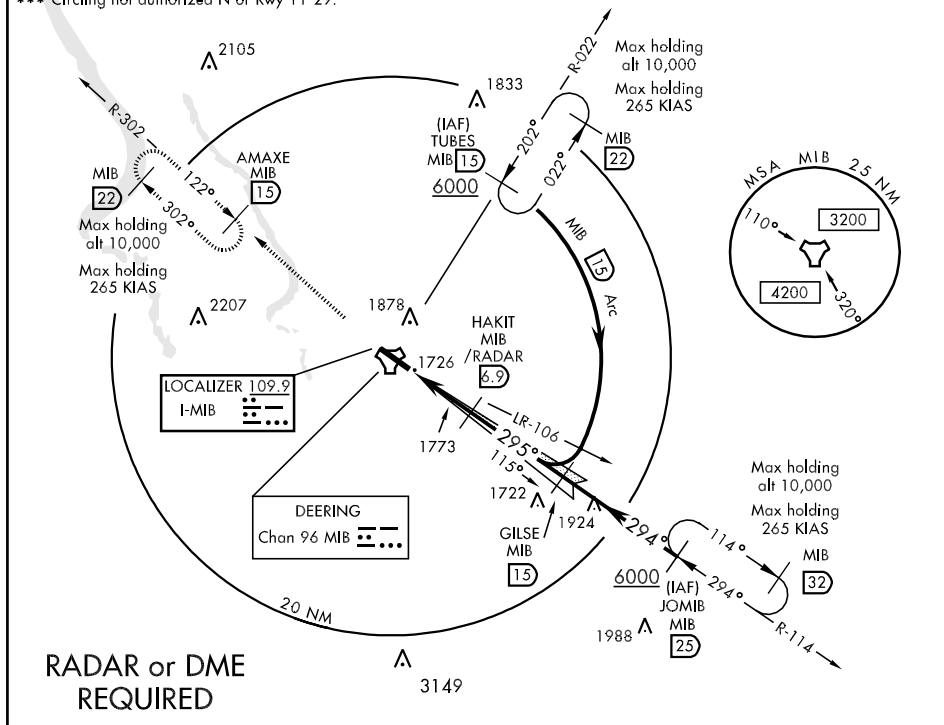
\* When ALS inop, increase CAT ABCDE RVR to 40 and vis to  $\frac{3}{4}$  mile.  
 \*\* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile,  
 CAT CDE RVR to 60 and vis to  $1\frac{1}{2}$  miles.



MISSED APPROACH: Climb to 5000 via  
 MIB TACAN R-302 direct AMAXE and hold.

ATIS ★ <b>278.8</b>	MINOT APP CON <b>119.6 363.8</b>	MINOT TOWER ★ <b>120.65 253.5</b>	GND CON <b>134.0 275.8</b>	CLNC DEL <b>326.2</b>
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\*\*\* Circling not authorized N or Rwy 11-29.



**RADAR or DME  
 REQUIRED**

EMERG SAFE ALT 100 NM 4800

CATEGORY	A	B	C	D	E
S-ILS 29 *	1838/24		200	(200-½)	
S-LOC 29 **	2040/24	402 (400-½)	2040/40	402	(400-¾)
CIRCLING ***	2160-1	493 (500-1)	2160-1½ 493 (500-1½)	2220-2 553 (600-2)	2240-2 573 (600-2)

CATEGORY	A	B	C	D	E
S-ILS 29 *	1838/24		200	(200-½)	
S-LOC 29 **	2040/24	402 (400-½)	2040/40	402	(400-¾)
CIRCLING ***	2160-1	493 (500-1)	2160-1½ 493 (500-1½)	2220-2 553 (600-2)	2240-2 573 (600-2)

TACAN MIB	APCH CRS	Rwy Idg	13,197
Chan 96	122°	THRE	1667
		Arpt Elev	1667

JAL-5013 [USAF]

MINOT AFB (KMIB)

\* When ALS inop, increase CAT AB RVR to 55 and vis to 1 mile, CAT CDE vis to 1¼ miles.



**MISSED APPROACH:** Climb to 5000 via  
MIR TACAN R-109 direct AMIRE and hold

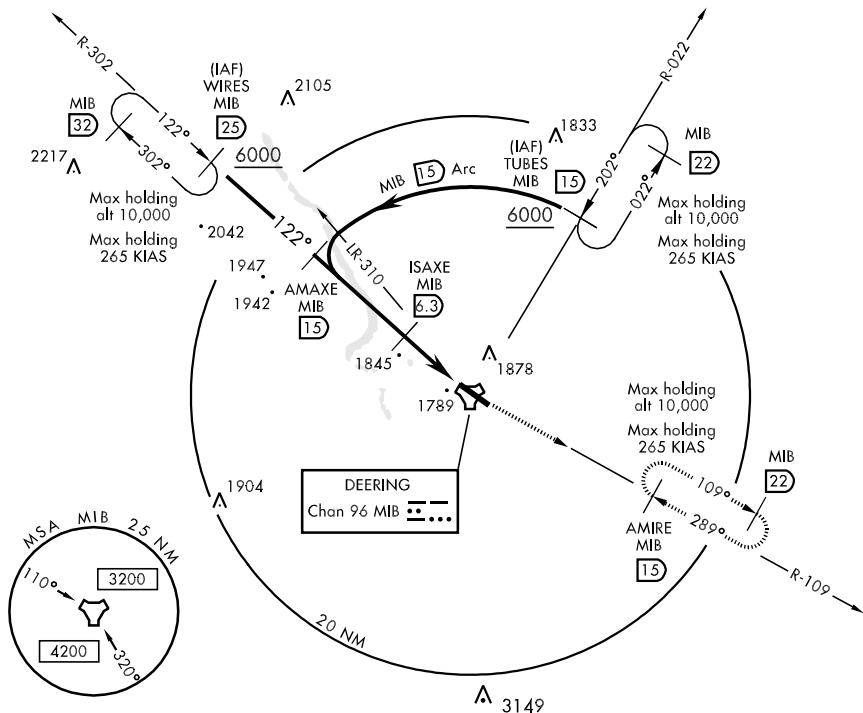
\*\* Circling not authorized N of Rwy 11-29.

ATIS ★  
278.8

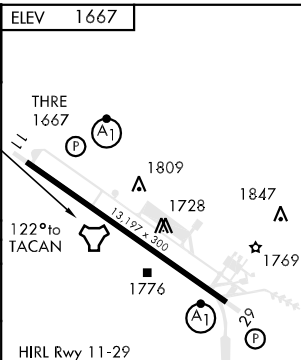
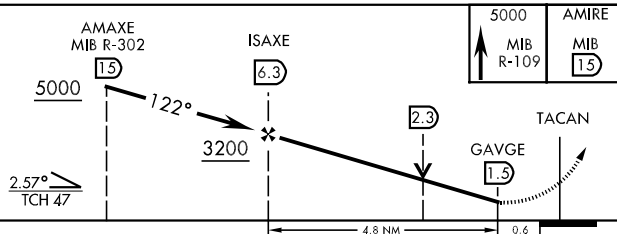
MINOT APP CON  
**119.6 363.8**

MINOT TOWER ★  
120.65 253.5

GND CON  
134.0 275.8

CLNC DEL  
**326.2**

EMERG SAFE ALT 100 NM 4800



CATEGORY	A	B	C	D	E
S-11*	2100/24 433 (500-½)		2100/40 433 (500-¾)		
CIRCLING**	2160-1 493 (500-1)		2160-1½ 493 (500-1½)	2220-2 553 (600-2)	2240-2 573 (600-2)

MINOT, NORTH DAKOTA

48° 25' N-101° 22' W

MINOT AFB (KMIB)

Orig 10238

TACAN RWY 11

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

TACAN MIB  
Chan 96

APCH CRS  
289 °

Rwy Idg	13,197
THRE	1638
Arpt Elev	1667

AL-5013 [USAF]

MINOT AFB (KMIB)

\* When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT CDE vis to 1 3/8 miles.  
\*\* Circling not authorized N of Rwy 11-29.



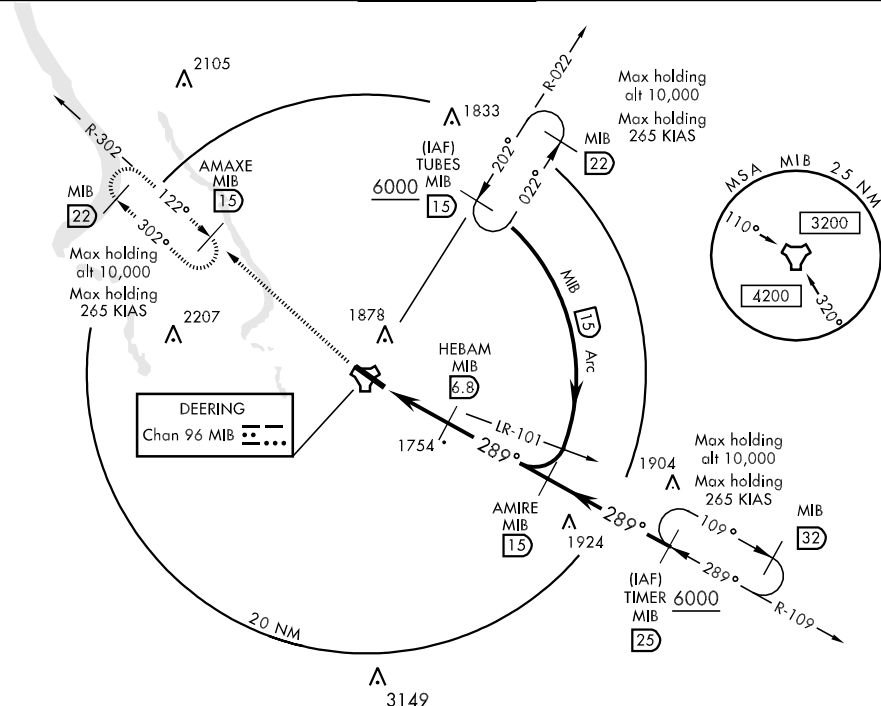
MISSED APPROACH: Climb to 5000 via  
MIB TACAN R-302 direct AMAXE and hold.

ATIS ★  
278.8

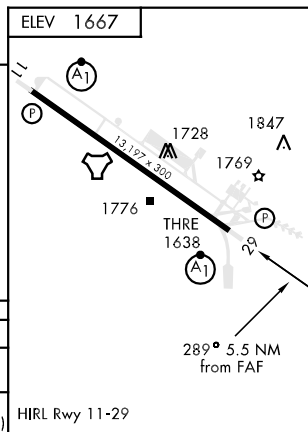
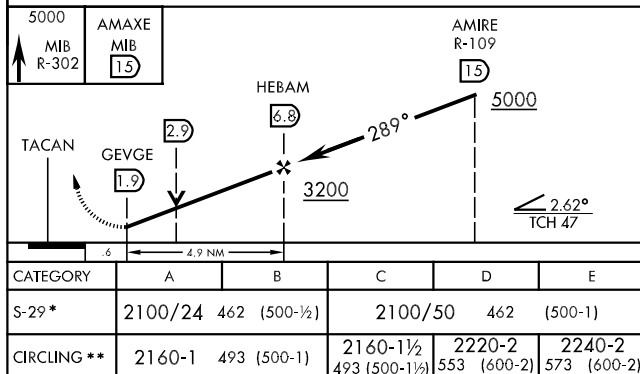
MINOT APP CON  
119.6 363.8

MINOT TOWER ★  
120.65 253.5

GND CON  
134.0 275.8

CLNC DEL  
326.2

EMERG SAFE ALT 100 NM 4800



MINOT, NORTH DAKOTA

48° 25' N-101° 21' W

MINOT AFB (KMIB)

Orig 10238

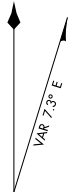
TACAN RWY 29

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1. 26 AUG 2010 to 23 SEP 2010

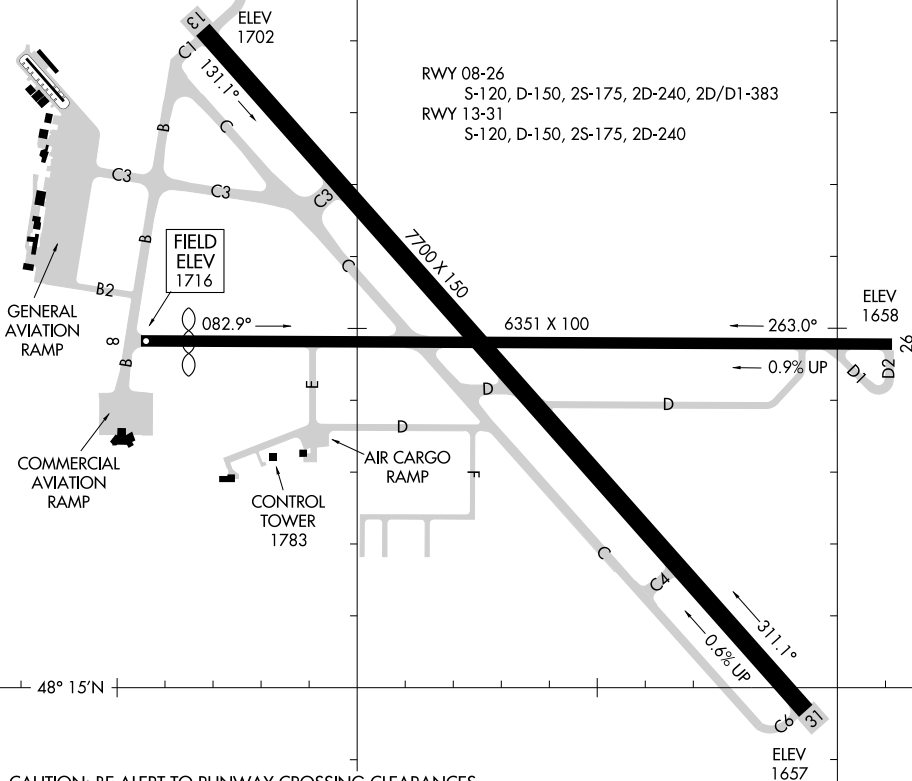
## AIRPORT DIAGRAM

AL-635 (FAA)

MINOT INTL (MOT)  
MINOT, NORTH DAKOTAMAGIC CITY TOWER ★  
118.2 393.1  
GND CON  
121.9 393.1


JANUARY 2010  
ANNUAL RATE OF CHANGE  
0.2° W

RWY 08-26  
S-120, D-150, 2S-175, 2D-240, 2D/D1-383  
RWY 13-31  
S-120, D-150, 2S-175, 2D-240



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

## AIRPORT DIAGRAM

MINOT, NORTH DAKOTA  
MINOT INTL (MOT)

**MINOT INTL** (MOT) 2 N UTC-6(-5DT) N48°15.46' W101°16.68'

1716 B S4 FUEL 100LL, JET A OX 3 AOE Class I, ARFF Index B NOTAM FILE MOT

RWY 13-31: H7700X150 (CONC-GRVD) S-120, D-150, 2S-175, 2D-240 HIRL 0.6% up NW

RWY 13: PAPI(P4L). RWY 31: MALSR.

RWY 08-26: H6351X100 (ASPH-GRVD) S-120, D-150, 2S-175, 2D-240, 2D/D1-383 HIRL 0.9% up W

RWY 08: REIL. PAPI(P4L)—GA 3.0° TCH 49'. Thld displcd 393'.

Trees.

RWY 26: REIL. PAPI(P4L)—GA 3.0° TCH 50'.

**AIRPORT REMARKS:** Attended continuously. Deer and birds on and in/ovf arpt. CLOSED to unscheduled air carrier acft ops with more than 30 passenger seats, except PPR: call arpt manager 701-857-4724. Twys D, E, and B2 not avbl for air carrier ops with more than 30 passenger seats. Twys D, E and B2 restricted to 12,500 pounds or less and are marked with edge reflectors. Rwy 31 touchdown, rwy visual range avbl. When twr is clsd ACTIVATE HIRL Rwy 08-26 and Rwy 13-31, REIL Rwy 08 and Rwy 26, MALSR Rwy 31—CTAF. PAPI Rwy 08, 26 and Rwy 13 opr 24 hrs. Ldg fee for acft over 12,500 pounds. Customs svc avbl 24 hrs; for customs call 701-838-6704. Flight Notification Service (ADCUS) available.

**WEATHER DATA SOURCES:** ASOS 118.725 (701) 837-9379. HIWAS 117.1 MOT.

**COMMUNICATIONS:** CTAF 118.2 UNICOM 122.95

RCO 122.2 (GRAND FORKS RADIO)

Ⓡ APP/DEP CON 119.6 (Opr 24 hrs, from Mon 1300Z± thur Sat 0500Z. Sat and Sun 1300-0500Z±), other hrs ctc

MINNEAPOLIS CENTER APP/DEP CON 127.6

MAGIC CITY TOWER 118.2 (1300-0400Z±) GND CON 121.9

**AIRSPACE:** CLASS D svc 1300-0400Z± other times CLASS E.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MOT.

(H) VORTACW 117.1 MOT Chan 118 N48°15.62' W101°17.22' at fld. 1691/13E. HIWAS.

VOR unusable:

100°-125° byd 35 NM blo 3,700'.

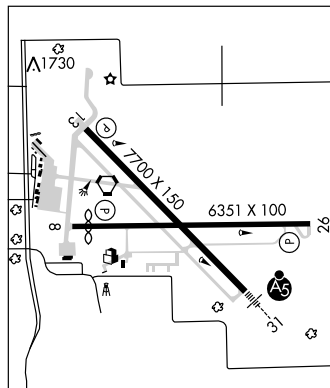
230°-265° byd 35 NM blo 3,700'

135°-230° byd 35 NM blo 4,000'

265°-300° byd 35 NM blo 3,500'.

ILS/DME 111.9 I-MOT Chan 56 Rwy 31. Localizer backcourse unusable byd 15 NM. ILS unmonitored 0400-1300Z±

**COMM/NAV/WEATHER REMARKS:** Minot AFB (MIB) ASR OTS for preventive maintenance Fridays 1300-1500Z± and alternate Tuesdays 1230-1430Z±.



BILLINGS

H-26, L-14F

IAP, AD

**MINTO MUNI** (D06) 1 W UTC-6(-5DT) N48°17.00' W97°23.52'

820 NOTAM FILE GFK

RWY 17-35: 2600X100 (CONC-TURF)

RWY 17: Road. RWY 35: P-line.

**AIRPORT REMARKS:** Attended May-Sep 1400-2300Z±, Oct-Apr on call. Arpt CLOSED in winter months except PPR ctc arpt manager 701-248-3224. Confirm winter conditions and snow removal before use 701-248-3224/ 218-779-7940. Rwy 17-35 conc surface 2300'X20' in center located 300' inbound north end; turf surface soft when wet; sparse grass bordering conc edges. Rwy 35 -5' drainage swale 50' from thld.

**COMMUNICATIONS:** CTAF 122.9

TWIN CITIES

LOC/DME I-MOT	APP CRS	Rwy Idg	7700
111.9	308°	TDZE	1673
Chan 56		Apt Elev	1716

# ILS or LOC RWY 31

## MINOT INTL (MOT)

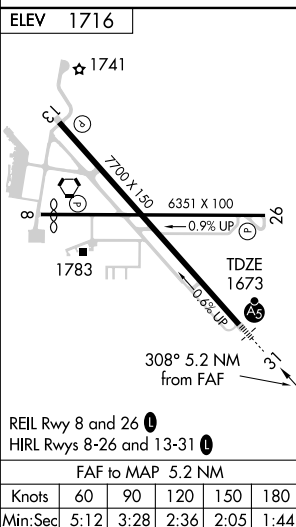
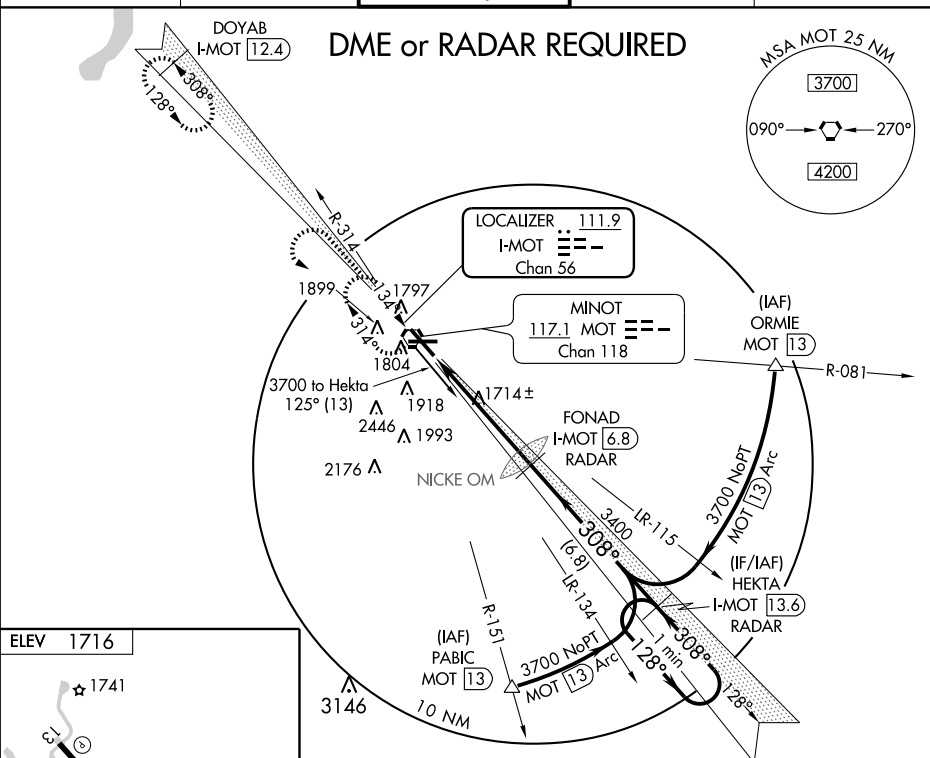
**⚠** If local altimeter setting not received use Minot AFB altimeter setting and increase all DAs/MDAs 40 feet. VDP NA when using Minot AFB altimeter setting.  
**⚠** DME or RADAR required. For inoperative MALSR increase S-ILS 31 Cat E visibility to RVR 4000, and S-LOC 31 Cats D and E visibility to RVR 5000.  
 \* RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALSR



MISSED APPROACH: Climb to 3700 then left turn direct MOT VORTAC and hold.

ASOS 118.725	MINOT APP CON ★ 119.6 363.8	MAGIC CITY TOWER ★ 118.2 (CTAF) 0 393.1	GND CON 121.9 393.1	UNICOM 122.95
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3700	MOT 117.1	HEKTA I-MOT 13.6 RADAR	One Minute Holding Pattern	
I-MOT 1.6	I-MOT 2.5	FONAD I-MOT 6.8 RADAR	Use I-MOT DME when on the LOC course.	
GS 3.00° TCH 49	0.9 NM	4.3 NM	6.8 NM	
CATEGORY	A	B	C	D E
S-ILS 31	* 1873/24 200 (200-½)			
S-LOC 31	1980/24 307 (300-½)		1980/40 307 (300-¾)	
CIRCLING	2200-1 484 (500-1)	2280-1½ 564 (600-1½)	2280-2 564 (600-2)	2800-3 1084 (1100-3)



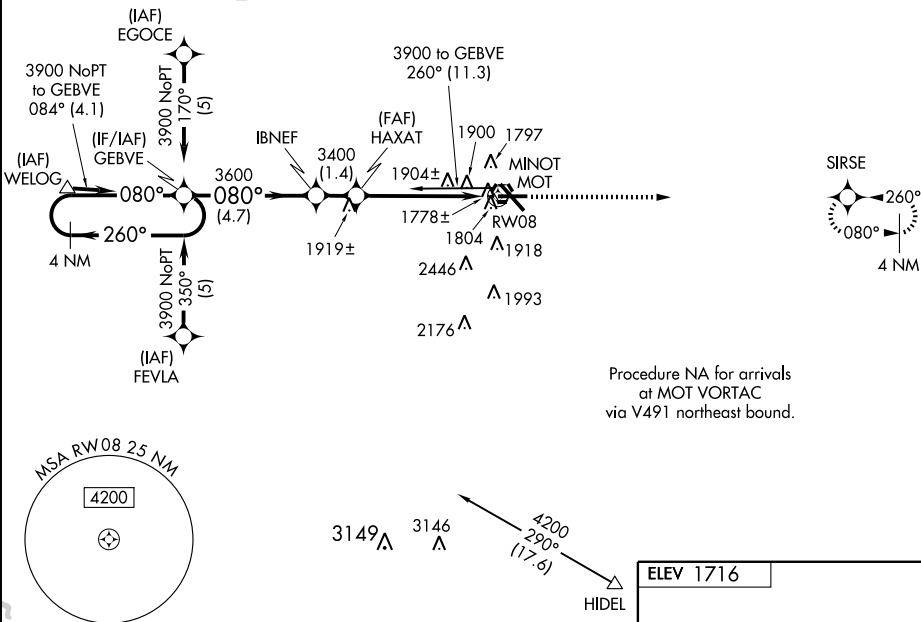
WAAS Chan <b>97616</b> <b>W08A</b>	APP CRS <b>080°</b>	Rwy Idg TDZE Apt Elev	<b>5958</b> <b>1712</b> <b>1716</b>
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RNAV (GPS) RWY 8  
MINOT INTL (MOT)

<p><b>T</b></p> <p><b>A</b></p>	<p>For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 45°C (113°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.</p> <p>Baro-VNAV NA when using Minot AFB altimeter setting. VDP NA with Minot AFB altimeter setting. When local altimeter setting not received, use Minot AFB altimeter setting and increase all DA 30 feet and all MDA 40 feet; increase LNAV/VNAV all Cats visibility ¼ mile and Circling Cat C visibility ¼ mile.</p>	<p><b>MISSED APPROACH:</b> Climb to 3600 direct SIRSE and hold.</p>
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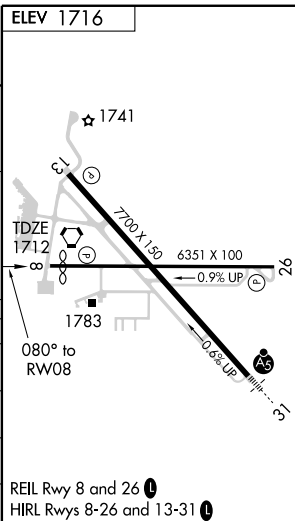
ASOS 118.725	MINOT APP CON* 119.6 363.8	MAGIC CITY TOWER* 118.2 (CTAF) 0 393.1	GND CON 121.9 393.1	UNICOM 122.95
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RADAR required for procedure entry at EGOCE.



Procedure NA for arrivals  
at MOT VORTAC  
via V491 northeast bound.

CATEGORY	A		B		C		D	
LPV DA	1991-1 279 (300-1)							
LNAV/DA VNAV	2218-1¼ 506 (600-1¼)							
LNAV MDA	2160-1	448 (500-1)	2160-1¼ 448 (500-1¼)		2160-1½ 448 (500-1½)			
CIRCLING	2200-1	484 (500-1)	2280-1½ 564 (600-1½)		2280-2 564 (600-2)			



MINOT, NORTH DAKOTA  
Orig 11FEB10

48°15'N-101°17'W

MINOT INTL (MOT)  
RNAV (GPS) RWY 8

NC-1. 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010



WAAS Chan <b>70399</b> W13A	APP CRS <b>128°</b>	Rwy Idg TDZE Apt Elev	<b>7700</b> <b>1702</b> <b>1716</b>
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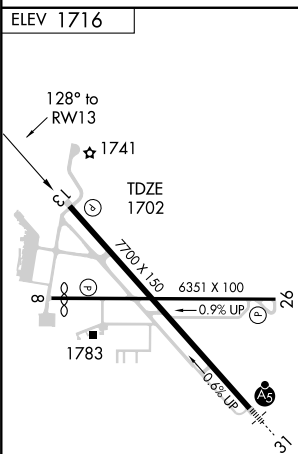
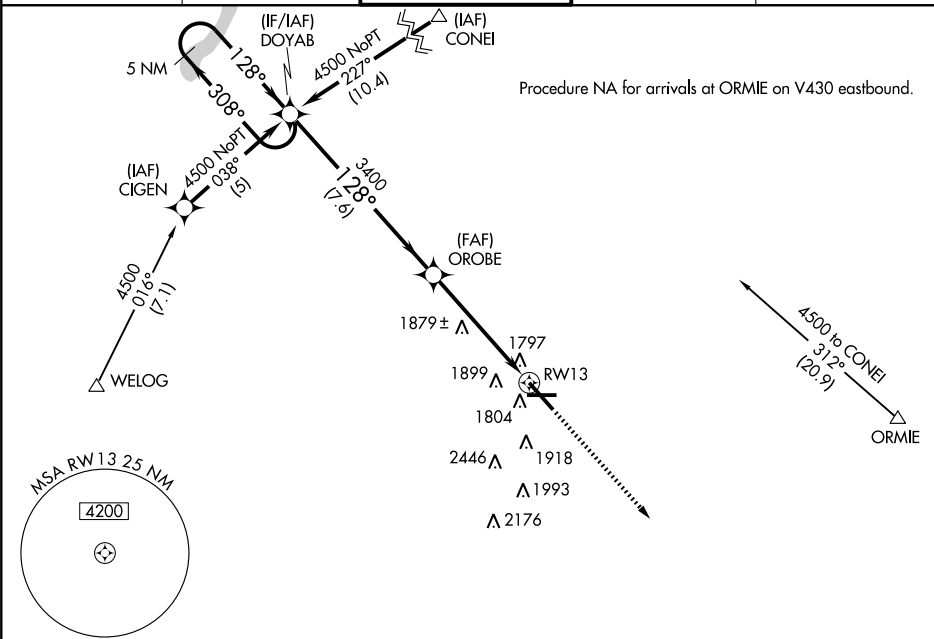
# RNAV (GPS) RWY 13

MINOT INTL (MOT)

**⚠** If local altimeter not received, use Minot AFB altimeter setting and increase all DAs/MDAs 40 feet. Baro-VNAV NA below -18°C (0°F).  
**⚠** VDP and Baro-VNAV NA when using Minot AFB altimeter setting.  
 DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 4000 direct HEKTA and hold.

ASOS <b>118.725</b>	MINOT APP CON* <b>119.6 363.8</b>	MAGIC CITY TOWER* <b>118.2 (CTAF) 0 393.1</b>	GND CON <b>121.9 393.1</b>	UNICOM <b>122.95</b>
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REIL Rwy 8 and 26  
 HIRL Rws 8-26 and 13-31

3149 5 NM Holding Pattern DOYAB 4500 ← 308° 128° → GS 3.00° TCH 49 7.6 NM 3.9 NM 1.2 NM *1.2 NM to RWY 13 *LNAV only 4000 HEKTA 5 NM 128° 309°				
CATEGORY	A	B	C	D
LPV DA	2021-1 319 (400-1)			
LNAV/ VNAV DA	2181-1¾ 479 (500-1¾)			
LNAV MDA	2140-1	438 (500-1)	2140-1¼ 438 (500-1¼)	2140-1½ 438 (500-1½)
CIRCLING	2200-1	484 (500-1)	2280-1½ 564 (600-1½)	2280-2 564 (600-2)

MINOT, NORTH DAKOTA

Amdt 1C 06MAY10

48°15'N-101°17'W

MINOT INTL (MOT)  
 RNAV (GPS) RWY 13

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

WAAS Chan <b>56516</b> <b>W26A</b>	APP CRS <b>260°</b>	Rwy Idg <b>6351</b> TDZE <b>1682</b> Apt Elev <b>1716</b>
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## RNAV (GPS) RWY 26

MINOT INTL (MOT)

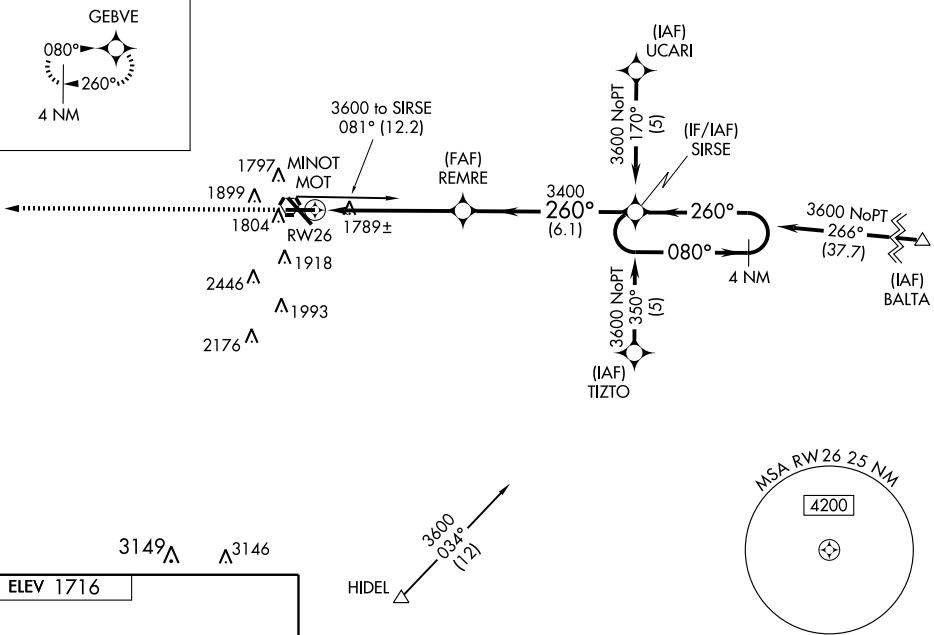
**T** For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 45°C (113°F). DME/DME RNP-0.3 NA. Baro-VNAV NA when using Minot AFB altimeter setting. VDP NA with Minot AFB altimeter setting. When local altimeter setting not received, use Minot AFB altimeter setting and increase all DA 30 feet and all MDA 40 feet; increase Circling Cat C visibility ¼ mile.

**MISSED APPROACH:**  
Climb to 3900 direct  
GEBVE and hold.

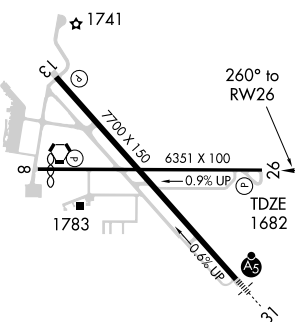
ASOS 118.725	MINOT APP CON★ 119.6 363.8	MAGIC CITY TOWER★ 118.2 (CTAF) 0 393.1	GND CON 121.9 393.1	UNICOM 122.95
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### MISSED APCH FIX

RADAR required for procedure entry at UCARI.



ELEV 1716

REIL Rwy 8 and 26 **L**HIRL Rwy 8-26 and 13-31 **L**

MINOT, NORTH DAKOTA

Orig 11FEB10

48°15'N-101°17'W

MINOT INTL (MOT)

RNAV (GPS) RWY 26

NC-1. 26 AUG 2010 to 23 SEP 2010

WAAS Chan <b>66099</b> W31A	APP CRS <b>308°</b>	Rwy Idg TDZE Apt Elev <b>1700</b> <b>1673</b> <b>1716</b>
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# RNAV (GPS) RWY 31

MINOT INTL (MOT)

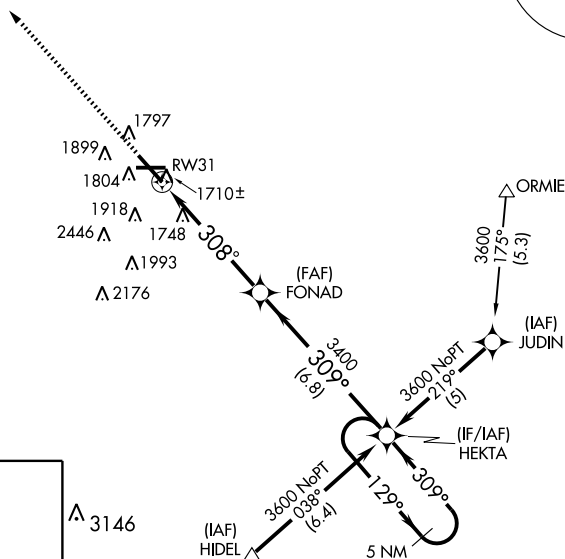
**⚠** If local altimeter setting not received use Minot AFB altimeter setting and increase all DAs/MDAs 40 feet. Baro-VNAV NA below -18°C (0°F). VDP and Baro-VNAV NA when using Minot AFB altimeter setting. For inoperative MALSR increase LPV visibility to RVR 5000 all Cats, LNAV/VNAV Cat D visibility to RVR 5000. Inoperative table does not apply to LNAV Cat D. DME/DME RNP-0.3 NA.

MALSR

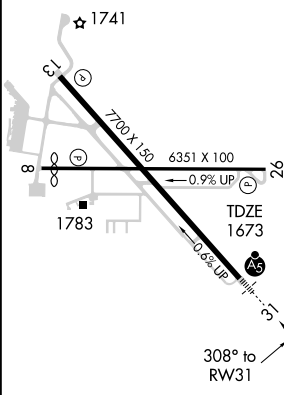


MISSED APPROACH: Climb to 4500 direct DOYAB and hold.





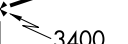
ASOS <b>118.725</b>	MINOT APP CON★ <b>119.6 363.8</b>	MAGIC CITY TOWER★ <b>118.2 (CTAF) 393.1</b>	GND CON <b>121.9 393.1</b>	UNICOM <b>122.95</b>
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ELEV 1716



REIL Rwy 8 and 26  
HIRL Rws 8-26 and 13-31

4500	DOYAB	HEKTA				5 NM Holding Pattern
						
* LNAV only		* 0.9 NM to RW31		FONAD	129° → 3600	
					← 309°	
0.9 NM		4.3 NM		6.8 NM	GS 3.00°	TCH 49°
CATEGORY	A	B	C	D		
LPV DA	1923/24 250 (300-½)					
LNAV/VNAV DA	1960/24 287 (300-½)				1960/40 287 (300-¾)	
LNAV MDA	2000/24 327 (300-½)				2000/50 327 (300-1)	
CIRCLING	2200-1 484 (500-1)		2280-1½ 564 (600-1½)		2280-2 564 (600-2)	

MINOT, NORTH DAKOTA

Amdt 1 09015

48°15'N-101°17'W

MINOT INTL (MOT)  
RNAV (GPS) RWY 31

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

VORTAC MOT <u>117.1</u> Chn 118	APP CRS <b>067°</b>	Rwy Idg <b>5958</b> TDZE <b>1712</b> Apt Elev <b>1716</b>
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VOR RWY 8  
MINOT INTL (MOT)

- V** VDP NA with Minot AFB altimeter setting. When local altimeter setting not received, use Minot AFB altimeter setting and increase all MDA 40 feet; **A** EMDEW FIX minimums increase S-8 and Circling Cat C visibility ¼ mile.

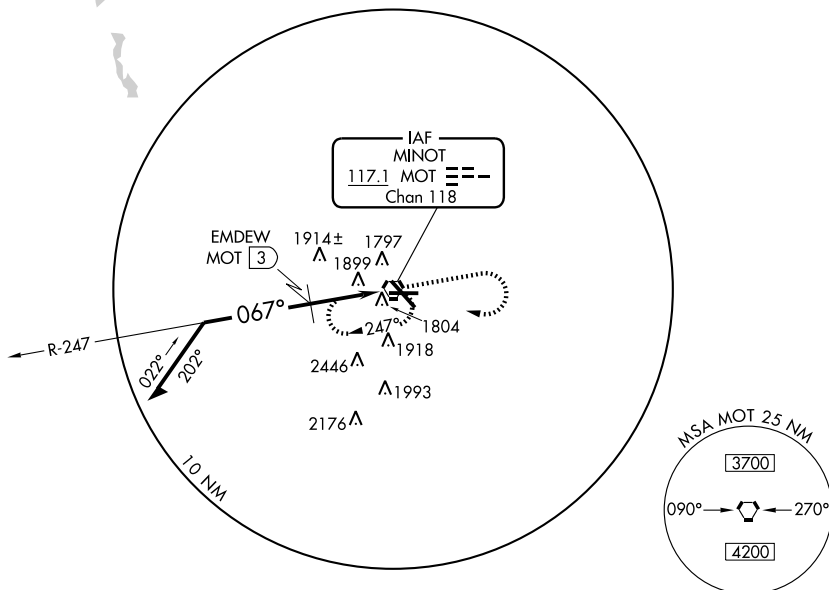
**MISSED APPROACH:** Climb to 3800 then right turn direct MOT VORTAC and hold.

ASOS  
118.725

MINOT APP CON ★  
119.6 363.8

MAGIC CITY TOWER★  
118.2 (CTAF) **L** 393.1

GND CON  
121.9 393.1

UNICOM  
122.95



3149  $\Delta$   $\Delta$  3146

ELEV 1716

Remain  
within 10 NM

VORTAC

380

3800 ↑		MOT  <u>117.1</u>
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VGSI and descent angles  
not coincident.

MOT  
  
117.1

\*2800 when using Minot AFB altimeter setting.

3800

EMDEV  
MOT 3

$$\frac{26^\circ}{CH\ 49}$$

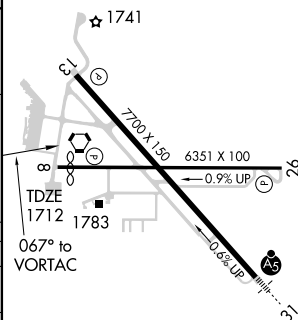
	1 2	

CATEGORY	A	B	C	D
S-8	2760-1¼ 1048 (1100-1¼)	2760-1½ 1048 (1100-1½)	2760-3	1048 (1100-3)
CIRCLING	2760-1¼ 1044 (1100-1¼)	2760-1½ 1044 (1100-1½)	2760-3	1044 (1100-3)

## EMDEW FIX MINIMUMS

S-8	2180-1 468 (500-1)	2180-1¼ 468 (500-1¼)	2180-1½ 468 (500-1½)
CIRCLING	2200-1 484 (500-1)	2280-1½ 564 (600-1½)	2280-2 564 (600-2)

1



REIL Rwy 8 and 26 **L**  
HIRL Rwy 8-26 and 13-31 **L**

MINOT, NORTH DAKOTA  
Amdt 11 11FEB10

48°15'N-101°17'W

MINOT INTL (MOT)  
VOR RWY 8

NC-1. 26 AUG 2010 to 23 SEP 2010

VORTAC MOT <u>117.1</u> Chan 118	APP CRS <b>134°</b>	Rwy Idg <b>7700</b> TDZE <b>1702</b> Apt Elev <b>1716</b>
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VOR RWY 13  
MINOT INTL (MOT)



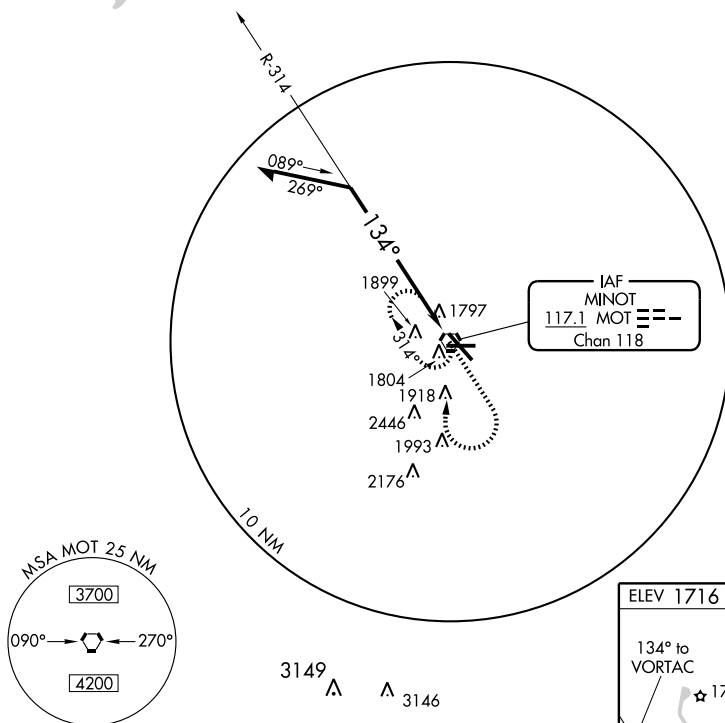
**MISSED APPROACH:** Climb to 3500 then right turn direct  
MOT VORTAC and hold.

ASOS  
118.725

MINOT APP CON ★  
119.6 363.8

MAGIC CITY TOWER ★  
118.2 (CTAF) **L** 393.1

GND CON  
121.9 393.1

UNICOM  
122.95

Remain  
within 10 NM

VORTAC

3500

MO  
17

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CATEGORY

A

--	--

B

C

D

S-13

22

498

D-11

00-

00.

## References

22

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80-

280

REIL Rwy 8 and 26 **L**

HIRL Rwy 8-26 and 13-31 L

MINOT, NORTH DAKOTA

Amdt 11 09015

48°15'N-101°17'W

MINOT INTL (MOT)  
VOR RWY 13

NC-1. 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

VORTAC MOT  
**117.1**  
 Chan **118**

APP CRS  
**264°**

Rwy Idg **6351**  
 TDZE **1682**  
 Apt Elev **1716**

**VOR RWY 26**  
 MINOT INTL (MOT)

▼ VDP NA with Minot AFB altimeter setting. When local altimeter setting not received, use Minot AFB altimeter setting and increase all MDA 40 feet; increase S-26 and Circling Cats A/C/D visibility ¼ mile, and EMEBY FIX minimums Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 3600 then left turn direct MOT VORTAC and hold.

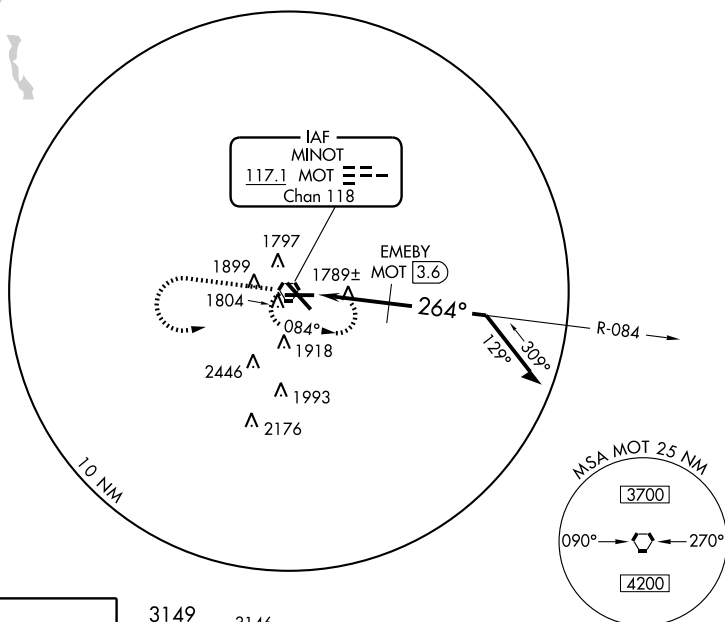
ASOS  
**118.725**

MINOT APP CON ★  
**119.6 363.8**

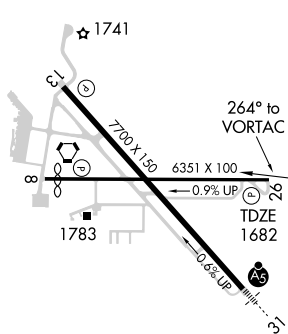
MAGIC CITY TOWER ★  
**118.2 (CTAF) 393.1**

GND CON  
**121.9 393.1**

UNICOM  
**122.95**



ELEV 1716



REIL Rwy 8 and 26  
 HIRL Rws 8-26 and 13-31

3149  
 3146

3600  
 MOT  
 117.1

VORTAC

3500

Remain within 10 NM

084°  
 EMEBY MOT 3.6  
 MOT 2  
 264°  
 3400  
 2.91°  
 TCH 50  
 1 NM 1.6 NM

\*2580 when using Minot AFB altimeter setting.

CATEGORY	A	B	C	D
S-26	2540-1 858 (900-1)	2540-1¼ 858 (900-1¼)	2540-2½ 858 (900-1½)	2540-2¾ 858 (900-2¾)
CIRCLING	2540-1 824 (900-1)	2540-1¼ 824 (900-1¼)	2540-2½ 824 (900-1½)	2540-2¾ 824 (900-2¾)

EMEBY FIX MINIMUMS

S-26	2040-1 358 (400-1)	2040-1¼ 358 (400-1¼)
CIRCLING	2200-1 484 (500-1)	2280-1½ 564 (600-1½) 2280-2 564 (600-2)

MINOT, NORTH DAKOTA  
 Amdt 13 11FEB10

48°15'N-101°17'W

MINOT INTL (MOT)  
**VOR RWY 26**

NC-1, 26 AUG 2010 to 23 SEP 2010

VORTAC MOT <b>117.1</b> Chan <b>118</b>	APP CRS <b>300°</b>	Rwy Idg TDZE Apt Elev	<b>7700</b> <b>1673</b> <b>1716</b>
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# VOR RWY 31

MINOT INTL (MOT)



MALSR



MISSED APPROACH: Climb to 3500 then left turn direct MOT VORTAC and hold.

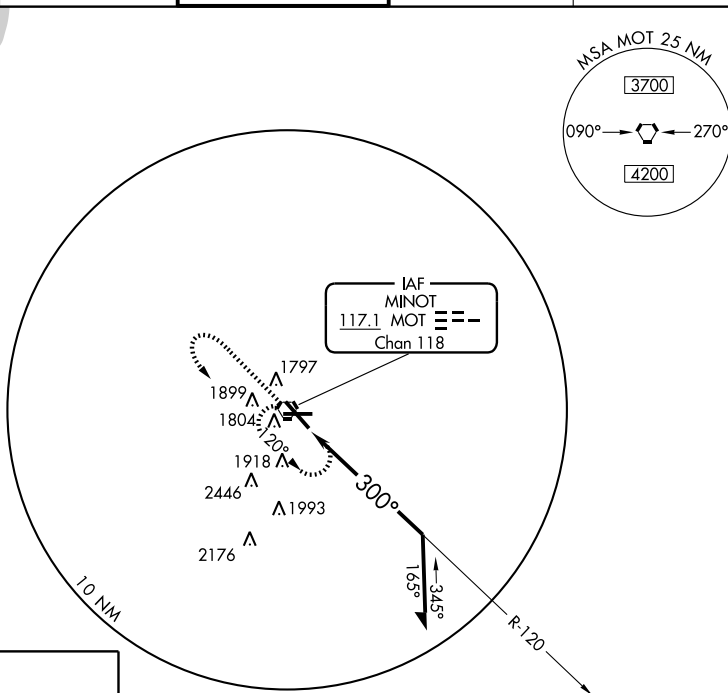
ASOS  
**118.725**

MINOT APP CON ★  
**119.6 363.8**

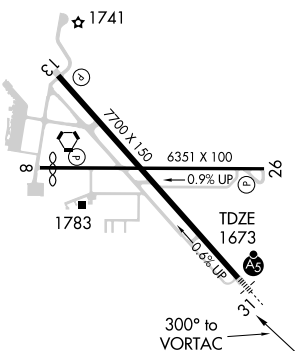
MAGIC CITY TOWER ★  
**118.2 (CTAF) 393.1**

GND CON  
**121.9 393.1**

UNICOM  
**122.95**



ELEV 1716



3149 3146

3500



MOT  
**117.1**

VORTAC

Remain  
within 10 NM

120° 3500  
300°

CATEGORY	A	B	C	D
S-31	2200/24 527 (500-½)		2200/50 527 (500-1)	2200/60 527 (500-1¼)
CIRCLING	2200-1 484 (500-1)		2280-1½ 564 (600-1½)	2280-2 564 (600-2)

REIL Rwy 8 and 26  
HIRL Rws 8-26 and 13-31

MINOT, NORTH DAKOTA

Amdt 11 09015

48°15'N-101°17'W

# VOR RWY 31

**MOHALL MUNI** (HBC) 1 W UTC-6(-5DT) N48°46.10' W101°32.22'

**BILLINGS**

1649 NOTAM FILE GFK

L-14F

**RWY 13-31:** H3121X60 (ASP-ASFSC) S-12.5 LIRL

**RWY 13:** P-line. **RWY 31:** Road.

IAP

**AIRPORT REMARKS:** Attended on call. For attendant and fuel call 701-756-7177/6640. Confirm snow removal and winter condition with arpt manager 701-756-7177. Rwy 13 has 5' swale 200' outbound thld. ACTIVATE LIRL Rwy 13-31-122.8.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

① **MINOT APP/DEP CON** 119.6 (Opr 24 hrs, from Mon 1300Z thru Sat 0500Z, Sat and Sun 1300-0500Z), other hours etc

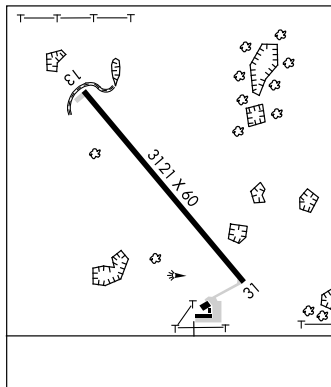
**MINNEAPOLIS CENTER APP/DEP CON** 127.6

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MOT.

**MINOT (H) VORTACW** 117.1 MOT Chan 118 N48°15.62'

W101°17.22' 329° 32.1 NM to fld. 1691/13E. **HIWAS.**

**COMM/NAV/WEATHER REMARKS:** Minot AFB (MIB) ASR OTS for preventive maintenance Fridays 1200-1400Z.



**MOTT MUNI** (3P3) 1 S UTC-7(-6DT) N46°21.55' W102°19.69'

**BILLINGS**

2413 **FUEL** 100LL NOTAM FILE GFK

L-14F

**RWY 10-28:** H4000X60 (ASPH) S-12.5 MIRL

**RWY 28:** Road.

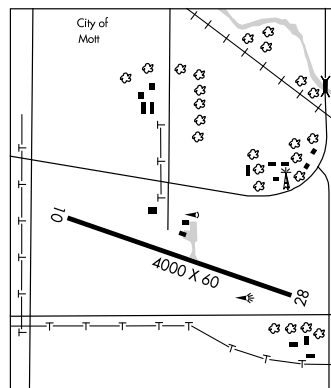
**AIRPORT REMARKS:** Unattended. Self svc fuel avbl 24 hrs with credit card. Deer on and invof arpt. Confirm winter conditions call 701-824-2030/2676/2552/2991 prior to use. Irregular snow removal. + 100' twr left on farmstead 1800' rgt of Rwy 28 thld. ACTIVATE MIRL Rwy 10-28-CTAF.

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DIK.

**DICKINSON (H) VORTACW** 112.9 DIK Chan 76 N46°51.60'

W102°46.41' 134° 35.3 NM to fld. 2520/14E. **HIWAS.**



**NAPOLEON MUNI** (5B5) 1 SE UTC-6(-5DT) N46°29.67' W99°45.61'

**TWIN CITIES**

1983 **FUEL** 100LL NOTAM FILE GFK

L-14G

**RWY 12-30:** H3200X60 (ASPH) S-6 LIRL

**RWY 12:** Trees.

**RWY 08-26:** 2500X80 (TURF)

**RWY 08:** Tree. **RWY 26:** Bank.

**AIRPORT REMARKS:** Unattended. For fuel after 2300Z etc city police on 701-754-2626 or during hours arpt manager 701-754-2226. Rwy 08-26 CLOSED Oct-Apr due to lack of snow removal. Deer on or invof arpt. Irregular snow removal. Confirm winter conditions with arpt manager during day on 701-754-2226 and evenings 701-754-2958. Rwy 12-30 asph sfc has numerous cracks and loose stones. Rwy 12-30 cultivated field 55' left and right of rwy centerline. Arpt lgts opr dusk-0600Z. ACTIVATE LIRL Rwy 12-30 after 0600Z-CTAF.

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BIS.

**BISMARCK (L) VORW/DME** 116.5 BIS Chan 112 N46°45.71' W100°39.92' 101° 40.7 NM to fld.

1841/12E. **HIWAS.**



# RNAV (GPS) RWY 31

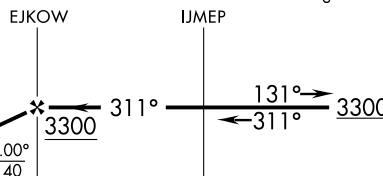
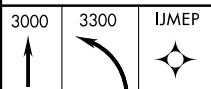
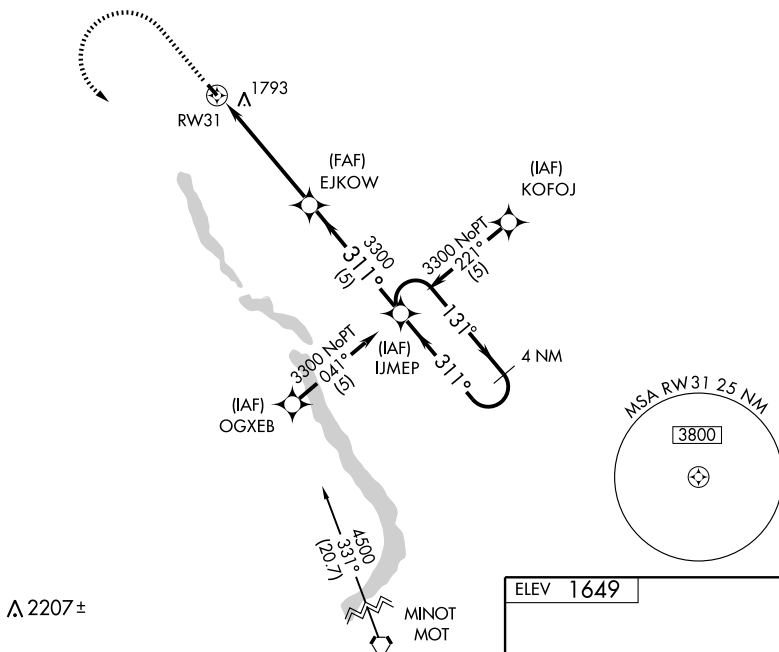
MOHALL MUNI (HBC)

**▲ NA** Use Minot Intl altimeter setting.  
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

**MISSED APPROACH:** Climb to 3000 then climbing left turn to 3300 direct IJMEP WP and hold.

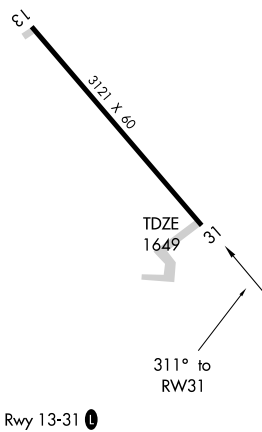
MINOT APP CON ★  
**119.6 363.8**

UNICOM  
**122.8 (CTAF) 0**



CATEGORY	A	B	C	D
GLS DA	NA			
LNAV/VNAV DA	NA			
LNAV MDA	2180-1	531 (600-1)	2180-1½ 531 (600-1½)	NA
CIRCLING	2240-1	591 (600-1)	2240-1½ 591 (600-1½)	NA

ELEV **1649**



LIRL Rwy 13-31 **0**

VORTAC MOT  
**117.1**  
Chan **118**

APP CRS  
**329°**

Rwy Idg **3121**  
TDZE **1649**  
Apt Elev **1649**

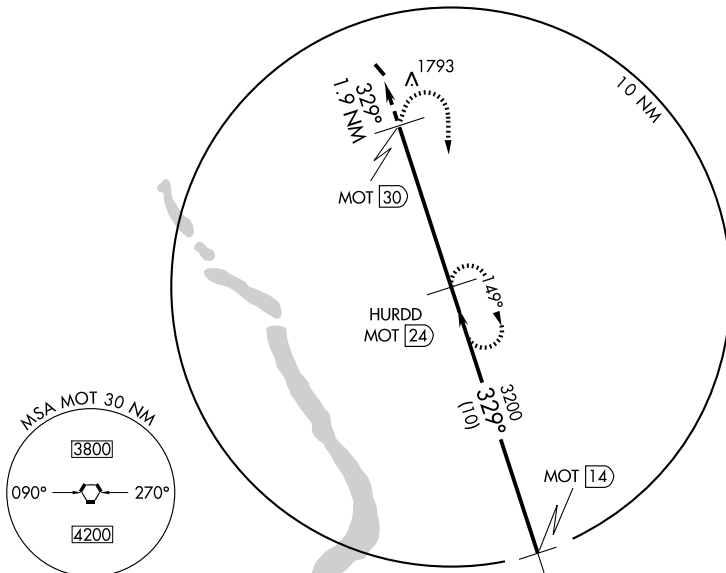
**VOR/DME RWY 31**  
MOHALL MUNI (HBC)

▲ NA Use Minot Intl altimeter setting.

MISSED APPROACH: Climbing right turn to 3200 via MOT R-329 to HURDD 24 DME and hold.

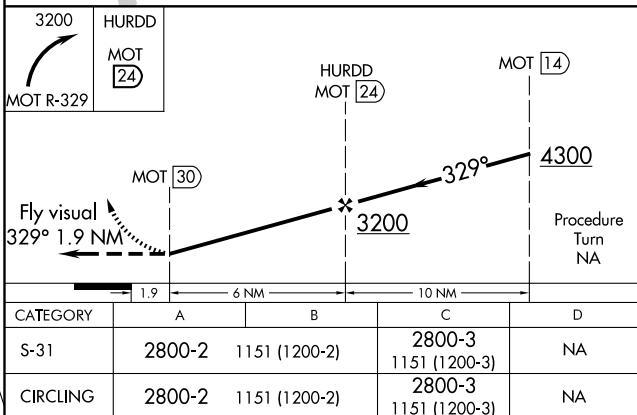
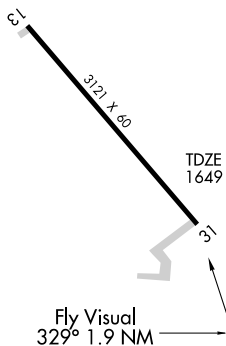
MINOT APP CON ★  
**119.6 363.8**

UNICOM  
**122.8** (CTAF) **0**



▲ 2207±

ELEV **1649**



URL Rwy 13-31 **0**

**NORTHWOOD MUNI—VINCE FLD** (4V4) 1 SW UTC-6(-5DT) N47°43.45' W97°35.43'

TWIN CITIES

1117 B S4 FUEL 100LL NOTAM FILE GFK

L-14G

RWY 08-26: H3160X60 (ASPH) S-12.5 MIRL

IAP

RWY 08: PAPI(P2L)—GA 3.0° TCH 26'. Treebelt. Rgt tdc.

RWY 26: PAPI(P2L)—GA 3.0° TCH 28'. Road.

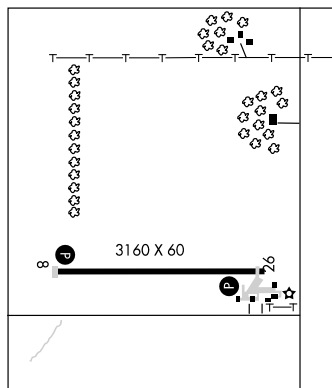
**AIRPORT REMARKS:** Attended Mon-Sat 1400-2300Z†. For svcs after hrs call arpt manager on 701-587-5171. CAUTION: Rwy 08-26 may be snow covered during winter months. Confirm winter conditions with arpt manager, 701-587-5171/cell 218-779-1242. Twy reflectors only. ACTIVATE MIRL Rwy 08-26 and PAPI Rwy 08 and Rwy 26—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

⑧ GRAND FORKS APP/DEP CON 118.1

RADIO AIDS TO NAVIGATION: NOTAM FILE GFK.

GRAND FORKS (H) VOR/DME 114.3 GFK Chan 90 N47°57.29' W97°11.12' 221° 21.4 NM to fld. 841/9E. HIWAS

**NOSON** N46°41.30' W102°42.75' NOTAM FILE DIK.

BILLINGS

NDB (LOM) 353 DI 320° 7.5 NM to Dickinson-Theodore Roosevelt Rgnl. Unmonitored.

**OAKES MUNI** (2D5) 2 N UTC-6(-5DT) N46°10.39' W98°04.79'

TWIN CITIES

1335 B FUEL 100LL NOTAM FILE GFK

L-14G

RWY 12-30: H3505X60 (ASPH) S-12.5 MIRL

IAP

RWY 12: PAPI(P2L)—GA 3.0° TCH 27'. Sprinkler system.

RWY 30: PAPI(P2L)—GA 3.0° TCH 27'.

RWY 17-35: 1925X200 (TURF)

RWY 17: Pole. RWY 35: Road.

**AIRPORT REMARKS:** Attended May-Oct Mon-Fri 1400-2300Z†. For attendant after hrs call 701-742-3145. For fuel call city police 701-742-3145/2172. Rwy 17-35 CLOSED winter months due to lack of snow removal. Confirm winter conditions with arpt manager before use, call 701-742-3145/701-742-2293/2231/2137/2172 (Police). Rwy 17-35 grass surface clumpy. ACTIVATE MIRL Rwy 12-30 and PAPI Rwy 12 and Rwy 30—CTAF.

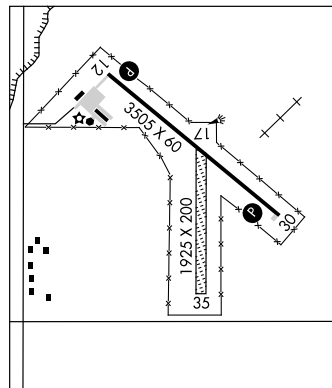
WEATHER DATA SOURCES: AWOS-3 118.675 (701) 742-3991.

COMMUNICATIONS: CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 124.2

RADIO AIDS TO NAVIGATION: NOTAM FILE ABR.

ABERDEEN (H) VOR/DME 113.0 ABR Chan 77 N45°25.04' W98°22.12' 008° 46.9 NM to fld. 1301/7E.

**PARK RIVER—W C SKJERVEN FLD** (Y37) 1 W UTC-6(-5DT) N48°23.65' W97°46.85'

TWIN CITIES

1104 B S4 FUEL 100LL NOTAM FILE GFK

L-14G

RWY 12-30: H3100X60 (ASPH) S-12 MIRL

RWY 12: PAPI(P2L)—GA 3.0° TCH 25'. Road. RWY 30: PAPI(P2L)—GA 3.0° TCH 25'. Trees.

RWY 03-21: 2500X100 (TURF)

RWY 03: Trees. RWY 21: Road.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z†. For attendant after hrs call 701-284-7804 or City Police 701-284-6644. For fuel ctc arpt manager on 701-284-7303 or after hrs on 701-284-7804 or 331-1110. Rwy 03-21 CLOSED winter months due to lack of snow removal. Confirm winter conditions after major storm with arpt manager on 701-284-7303/7804/6644/6755 or 331-1110. Deer on and invof arpt. Rwy 12-30 and Rwy 03-21 soft shoulders. Rwy 03 and Rwy 21 dalgt boundary markers, 3' metal fixtures red and white. ACTIVATE MIRL Rwy 12-30, and PAPI Rwy 12 and Rwy 30—CTAF. Rotating ben OTS indef.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE GFK.

GRAND FORKS (H) VOR/DME 114.3 GFK Chan 90 N47°57.29' W97°11.12' 309° 35.6 NM to fld. 841/9E. HIWAS.

APP CRS	Rwy Idg	<b>3160</b>
<b>262°</b>	TDZE	<b>1117</b>
	Apt Elev	<b>1117</b>

# RNAV (GPS) RWY 26

## NORTHWOOD MUNI-VINCE FIELD (4V4)

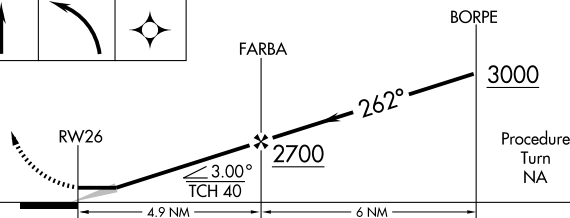
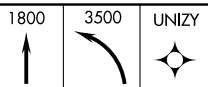
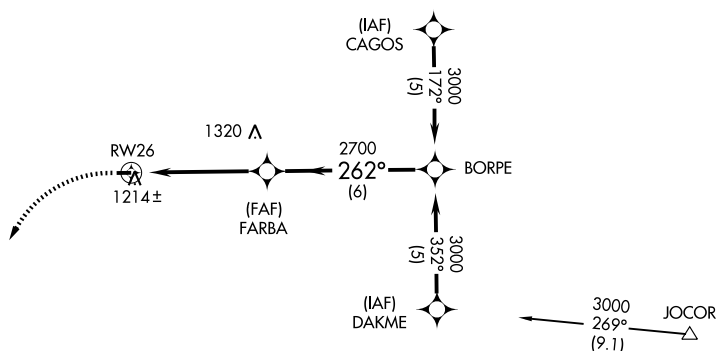
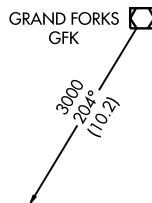
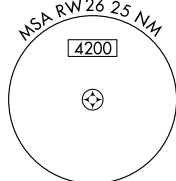
**NA** DME/DME RNP- 0.3 NA.  
Use Grand Forks Intl altimeter setting.  
Procedure NA at night.

MISSED APPROACH: Climb to 1800 then climbing left turn to 3500 direct UNIZY WP and hold.

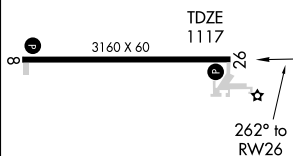
GRAND FORKS APP CON  
**118.1 318.1**

UNICOM  
**122.8 (CTAF)**

**Δ 2236**



ELEV 1117



CATEGORY	A	B	C	D
LNAV MDA	1660-1	543 (600-1)	NA	
CIRCLING	1720-1	603 (700-1)	NA	

MIRL Rwy 8-26 **0**

**NORTHWOOD MUNI—VINCE FLD** (4V4) 1 SW UTC-6(-5DT) N47°43.45' W97°35.43'

TWIN CITIES

1117 B S4 FUEL 100LL NOTAM FILE GFK

L-14G

RWY 08-26: H3160X60 (ASPH) S-12.5 MIRL

IAP

RWY 08: PAPI(P2L)—GA 3.0° TCH 26'. Treebelt. Rgt tdc.

RWY 26: PAPI(P2L)—GA 3.0° TCH 28'. Road.

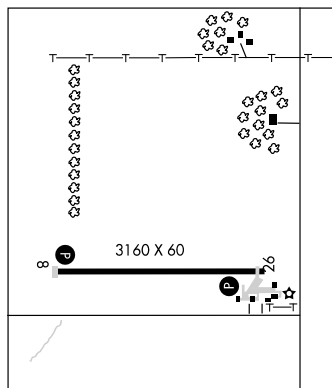
**AIRPORT REMARKS:** Attended Mon-Sat 1400-2300Z†. For svcs after hrs call arpt manager on 701-587-5171. CAUTION: Rwy 08-26 may be snow covered during winter months. Confirm winter conditions with arpt manager, 701-587-5171/cell 218-779-1242. Twy reflectors only. ACTIVATE MIRL Rwy 08-26 and PAPI Rwy 08 and Rwy 26—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

⑧ GRAND FORKS APP/DEP CON 118.1

RADIO AIDS TO NAVIGATION: NOTAM FILE GFK.

GRAND FORKS (H) VOR/DME 114.3 GFK Chan 90 N47°57.29' W97°11.12' 221° 21.4 NM to fld. 841/9E. HIWAS

**NOSON** N46°41.30' W102°42.75' NOTAM FILE DIK.

BILLINGS

NDB (LOM) 353 DI 320° 7.5 NM to Dickinson-Theodore Roosevelt Rgnl. Unmonitored.

**OAKES MUNI** (2D5) 2 N UTC-6(-5DT) N46°10.39' W98°04.79'

TWIN CITIES

1335 B FUEL 100LL NOTAM FILE GFK

L-14G

RWY 12-30: H3505X60 (ASPH) S-12.5 MIRL

IAP

RWY 12: PAPI(P2L)—GA 3.0° TCH 27'. Sprinkler system.

RWY 30: PAPI(P2L)—GA 3.0° TCH 27'.

RWY 17-35: 1925X200 (TURF)

RWY 17: Pole. RWY 35: Road.

**AIRPORT REMARKS:** Attended May-Oct Mon-Fri 1400-2300Z†. For attendant after hrs call 701-742-3145. For fuel call city police 701-742-3145/2172. Rwy 17-35 CLOSED winter months due to lack of snow removal. Confirm winter conditions with arpt manager before use, call 701-742-3145/701-742-2293/2231/2137/2172 (Police). Rwy 17-35 grass surface clumpy. ACTIVATE MIRL Rwy 12-30 and PAPI Rwy 12 and Rwy 30—CTAF.

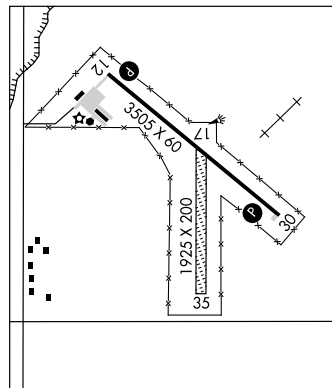
WEATHER DATA SOURCES: AWOS-3 118.675 (701) 742-3991.

COMMUNICATIONS: CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 124.2

RADIO AIDS TO NAVIGATION: NOTAM FILE ABR.

ABERDEEN (H) VOR/DME 113.0 ABR Chan 77 N45°25.04' W98°22.12' 008° 46.9 NM to fld. 1301/7E.

**PARK RIVER—W C SKJERVEN FLD** (Y37) 1 W UTC-6(-5DT) N48°23.65' W97°46.85'

TWIN CITIES

1104 B S4 FUEL 100LL NOTAM FILE GFK

L-14G

RWY 12-30: H3100X60 (ASPH) S-12 MIRL

RWY 12: PAPI(P2L)—GA 3.0° TCH 25'. Road. RWY 30: PAPI(P2L)—GA 3.0° TCH 25'. Trees.

RWY 03-21: 2500X100 (TURF)

RWY 03: Trees. RWY 21: Road.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z†. For attendant after hrs call 701-284-7804 or City Police 701-284-6644. For fuel ctc arpt manager on 701-284-7303 or after hrs on 701-284-7804 or 331-1110. Rwy 03-21 CLOSED winter months due to lack of snow removal. Confirm winter conditions after major storm with arpt manager on 701-284-7303/7804/6644/6755 or 331-1110. Deer on and invof arpt. Rwy 12-30 and Rwy 03-21 soft shoulders. Rwy 03 and Rwy 21 dalgt boundary markers, 3' metal fixtures red and white. ACTIVATE MIRL Rwy 12-30, and PAPI Rwy 12 and Rwy 30—CTAF. Rotating ben OTS indef.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE GFK.

GRAND FORKS (H) VOR/DME 114.3 GFK Chan 90 N47°57.29' W97°11.12' 309° 35.6 NM to fld. 841/9E. HIWAS.

APP CRS **305°**  
Rwy Idg **3505**  
TDZE **1335**  
Apt Elev **1335**

**GPS RWY 30**  
OAKES MUNI (2D5)

**▼**  
**▲ NA** Use Aberdeen altimeter setting.

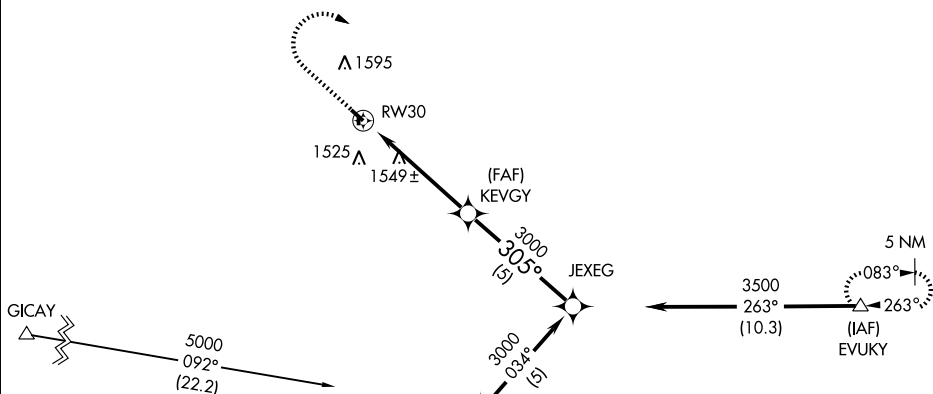
MISSED APPROACH: Climb to 2000 then climbing right turn to 5000 direct EVUKY WP and hold.

AWOS-3  
**118.675**

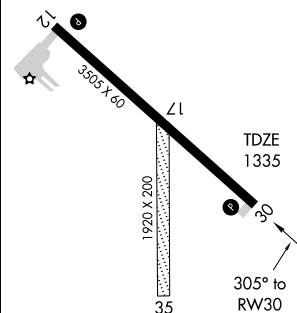
MINNEAPOLIS CENTER  
**124.2 270.3**

CTAF  
**122.9 0**

▲1749



ELEV 1335



MIRL Rwy 12-30 **0**

CATEGORY	A		B		C		D	
	1920-1		585 (600-1)		1920-1½ 585 (600-1½)		NA	
CIRCLING	1920-1		585 (600-1)		2020-2 685 (700-2)		NA	

**PARSHALL-HANKINS** (Y74) 1 S UTC-6(-5DT) N47°56.18' W102°08.53'

**BILLINGS**

2031 B FUEL 100LL NOTAM FILE GFK

L-14F

RWY 12-30: H3200X60 (ASPH) S-12 MIRL

**AIRPORT REMARKS:** Attended on call. For attendance schedule May-Sep call arpt manager 701-862-3265. Self svc 24 hr credit card fueling system avbl. Deer on or invof arpt. Rwy 12-30 confirm snow removal at 701-898-4113, or city hall 701-862-3459, or city water plant manager 701-862-3510. Twy marked with reflectors only. MIRL Rwy 12-30 operates continuous at low setting as PCL OTS.

**COMMUNICATIONS:** CTAF 122.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISN.

WILLISTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21' W103°45.04'

094° 67.4 NM to fld. 2372/12E. HIWAS.

**PEMBINA MUNI** (PMB) 1 S UTC-6(-5DT) N48°56.55' W97°14.45'

**TWIN CITIES**

795 FUEL 100LL, JET A AOE NOTAM FILE GFK

L-14G

RWY 15-33: H3800X75 (ASPH) S-12.5 MIRL

IAP

RWY 15: PAPI(P2L)—GA 3.0° TCH 26'. Road.

RWY 33: PAPI(P2L)—GA 3.0° TCH 26'.

**AIRPORT REMARKS:** Attended on call. Fuel svc 24 hr self service credit card system. For svcs ctc arpt manager 218-843-5084/2581. Irregular snow removal. Confirm winter conditions before use 218-843-5084/2581 or 701-825-6465-6421. Rwy 15 +60' trees 2000' from thld on centerline; apch ratio 30:1. After 0600Z± ACTIVATE MIRL Rwy 15-33 and PAPI for Rwy 15 and Rwy 33—CTAF. Flight Notification Service (ADCUS) avbl.

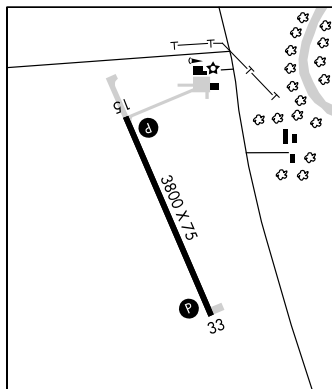
**COMMUNICATIONS:** CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 132.15

**RADIO AIDS TO NAVIGATION:** NOTAM FILE PNM.

HUMBOLDT (H) VORTAC 112.4 HML Chan 71 N48°52.15'

W97°07.03' 303° 6.6 NM to fld. 800/9E.



## PLAZA

**TRULSON FLD** (Y99) 1 NE UTC-6(-5DT) N48°01.83' W101°57.19'

**BILLINGS**

2105 NOTAM FILE GFK

RWY 08-26: 3200X60 (TURF) LIRL

RWY 08: Tree. RWY 26: Road.

**AIRPORT REMARKS:** Unattended. Rwy 08-26 turf surface has numerous large holes, grass clumps, and rolling, N half smoother than rest. Provided all traffic operations are conducted to N of Rwy 08-26, all turns to rgt when Indg/departing Rwy 26 and all turns to left when Indg/departing Rwy 08. Land fill 2500' from Rwy 08 thld on centerline—birds possible. Rwy 08 +70' trees 2000' from thld—100' right of extended centerline; apch ratio 28:1. Snow removal irregular, confirm winter conditions with chairman call 701-453-3387; prior request only. Snow removal limited to emergencies. For LIRL Rwy 08-26 call 701-497-3791/3394/3753 or 453-3387.

**COMMUNICATIONS:** CTAF 122.9

**PRUETZ MUNI** (See KULM)

**RED RIVER** N47°57.43' W97°24.35' NOTAM FILE GFK.

**TWIN CITIES**

(H) TACAN Chan 111 RDR (116.4) at Grand Forks AFB. 951/6E. No NOTAM MP Fri 1200-1500Z±.

H-2H, L-14G

**RICHARDTON** (4E8) 2 NW UTC-6(-5DT) N46°53.75' W102°21.29'

**BILLINGS**

2492 NOTAM FILE GFK

RWY 11-29: 4000X120 (TURF)

**AIRPORT REMARKS:** Unattended. 24 hr PPR call arpt manager 701-974-3315. Cattle grazing on rwy during Sep-Dec period. For winter condition call arpt manager 701-974-3315, or city auditor 974-3399 as no snow removal is avbl, confirm prior to use. Rwy 11-29 center 20' rough entire length of rwy. Rwy 11-29 turf rwy surface clumpy and extremely rough. 120' lgtd wind generator tower 800' right of centerline at thld for Rwy 29. Cultivated fld at rwy ends. Rwy 11-29 ends/edges marked with 2' metal dalgt markers.

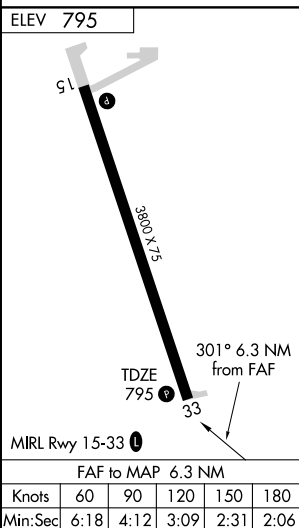
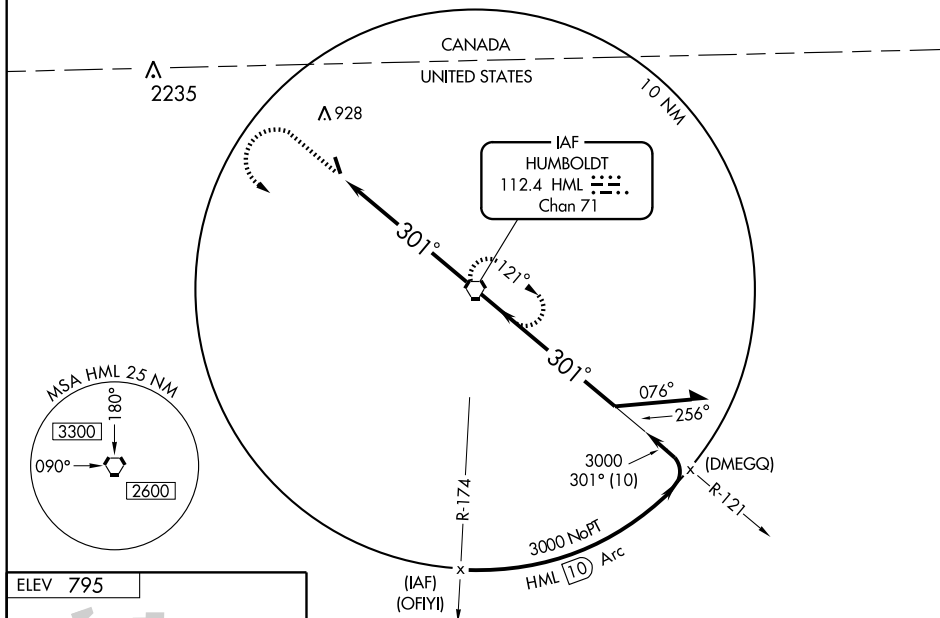
**COMMUNICATIONS:** CTAF 122.9

# VOR or GPS RWY 33

PEMBINA MUNI (PMB)

VORTAC HML <b>112.4</b> Chan <b>71</b>	APP CRS <b>301°</b>	Rwy Idg TDZE Apt Elev	<b>3800</b> <b>795</b> <b>795</b>
--	------------------------	-----------------------------	---

<b>NA</b> Obtain local altimeter setting on CTAF; when not received use Hallock altimeter setting.		MISSED APPROACH: Climb to 1300 then climbing left turn to 3000 direct HML VORTAC and hold.	
HALLOCK AWOS-3 <b>126.475</b>	MINNEAPOLIS CENTER <b>132.15 269.6</b>	PRINCETON RADIO <b>122.1R</b>	UNICOM <b>122.8</b> (CTAF) <b>0</b>



ELEV 795	1300	3000	HML 112.4	VORTAC	Remain within 10 NM
301° 6.3 NM from FAF	301° 6.3 NM	301° 6.3 NM	301° 6.3 NM	301° 6.3 NM	301° 6.3 NM
TDZE 795	TDZE 795	TDZE 795	TDZE 795	TDZE 795	TDZE 795
MIRL Rwy 15-33	MIRL Rwy 15-33	MIRL Rwy 15-33	MIRL Rwy 15-33	MIRL Rwy 15-33	MIRL Rwy 15-33
FAF to MAP 6.3 NM	FAF to MAP 6.3 NM	FAF to MAP 6.3 NM	FAF to MAP 6.3 NM	FAF to MAP 6.3 NM	FAF to MAP 6.3 NM
Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06

CATEGORY	A	B	C	D
S-33	1200-1	1300-1	1300-1½	NA
CIRCLING	405 (500-1)	505 (600-1)	505 (600-1½)	NA

HALLOCK ALTIMETER SETTING MINIMUMS				
S-33	1220-1	425 (500-1)	1220-1¼	NA
CIRCLING	1260-1	1360-1	1360-1½	NA
	465 (500-1)	565 (500-1)	565 (500-1½)	



## RIVERDALE

GARRISON DAM RECREATIONAL AIRPARK (37N) 1 SW UTC-6(-5DT) N47°28.98' W101°24.53'

BILLINGS

1723 NOTAM FILE GFK

RWY 11-29: 3200X60 (DIRT-GRVL) S-4

RWY 11: Trees. Rgt tfc.

RWY 29: Hill.

**AIRPORT REMARKS:** Unattended. Arpt CLOSED Nov-May. No snow removal avbl. Deer and birds on and invof arpt. Arpt surface soft when wet. Rwy 11-29 numerous small gravel and rocks on surface. Rwy 11-30' drop off 450' from thld. Rwy 29-5' drop off 420' from thld. Rwy 11-29 +15' dirt thld 40' from centerline on N side of rwy 500' inbound Rwy 11 thld. Rwy 11-29 surface limited to use only by acft gross weight under 4000 pounds. Rwy 11-29 NSTD markings, edges and thld marked with black/white cones.

**COMMUNICATIONS:** CTAF 122.9

## ROBERTSON FLD (See LANGDON)

ROLETTE (2H9) 1 W UTC-6(-5DT) N48°39.92' W99°51.19'

TWIN CITIES

1620 NOTAM FILE GFK

RWY 15-33: H3700X40 (ASPH) S-8 LIRL (NSTD)

RWY 15: Trees.

RWY 33: Thld dspcd 300'. Road

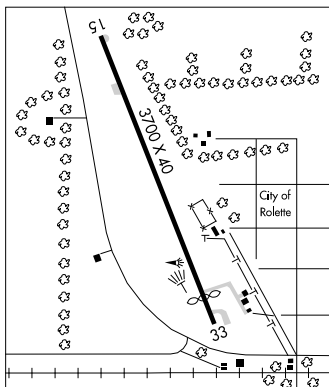
**AIRPORT REMARKS:** Unattended. Snow removal irregular, confirm winter conditions with arpt manager call 701-246-3700. Waterfowl invof arpt. Low flying military acft invof arpt. Rwy 15 +21' road violates transitional surface on W side of rwy protection zone. Rwy 15 +50' p-line 1500' from thld; 225' left of extended centerline; apch ratio 26:1. Rwy 33 +20' pole—left 520' from thld 150' right of extended centerline; apch ratio 16:1. Rwy 15-33 LIRL NSTD space 20' from rwy edge and 2' higher than rwy elevation.

ACTIVATE LIRL Rwy 15-33—CTAF.

**COMMUNICATIONS:** CTAF 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE DVL.

DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91'

W98°54.75' 305° 50.1 NM to fld. 1448/7E.



ROLLA MUNI (Ø6D) 2 N UTC-6(-5DT) N48°53.07' W99°37.25'

TWIN CITIES

1823 B S2 FUEL 100LL, JET A NOTAM FILE GFK

RWY 14-32: H4300X75 (ASPH) S-12.5 MIRL

RWY 14: PAPI(P2L)—GA 3.0° TCH 25'. Road.

RWY 32: PAPI(P2L)—GA 3.0° TCH 25'. Trees.

RWY 07-25: 2400X95 (TURF) 0.4% up SW

RWY 25: Road

**AIRPORT REMARKS:** Attended Mon-Fri dawn-dusk. For attendant after hrs call 701-477-5145/6780. 24 hr self service credit card fuel avbl. Waterfowl and birds on and invof arpt. CAUTION: low flying military acft invof arpt. Rwy 07-25 CLOSED winter months due to lack of snow removal. For snow removal and arpt conditions call arpt manager 701-477-5145/6780/0914. ACTIVATE MIRL Rwy 14-32 and PAPI Rwy 14 and Rwy 32—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.125 (701) 447-0055.**COMMUNICATIONS:** CTAF/UNICOM 122.8

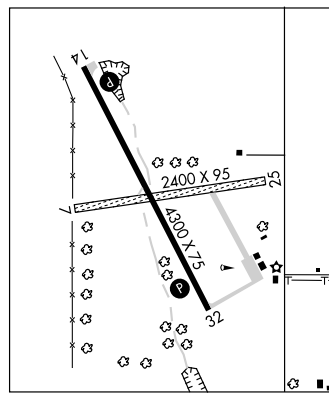
RCO 122.65 (GRAND FORKS RADIO)

MINNEAPOLIS CENTER APP/DEP CON 127.6

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DVL.

DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91'

W98°54.75' 322° 54.1 NM to fld. 1448/7E.



APP CRS	Rwy Idg	<b>4300</b>
<b>322°</b>	TDZE	<b>1818</b>
	Apt Elev	<b>1822</b>

# GPS RWY 32

ROLLA MUNI (Ø6D)

Use Devils Lake altimeter setting.  
**NA** **IAF** ARM APPROACH MODE PRIOR TO IAF.

MISSED APPROACH: Climbing left turn to 4000 direct UTACI WP and hold.

AWOS-3  
**118.125**

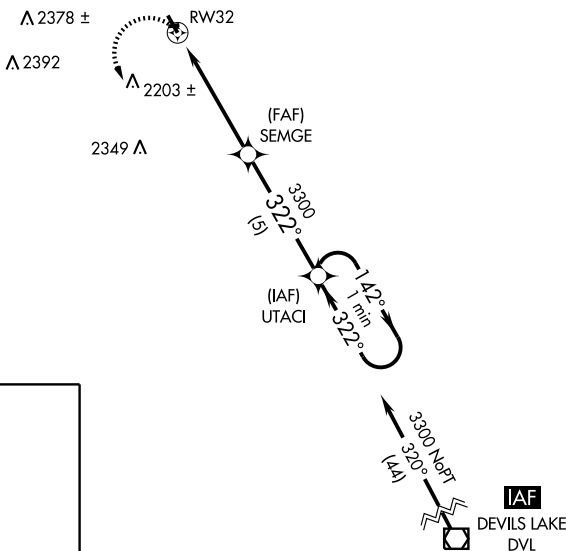
DEVILS LAKE AWOS-3  
**125.875**

MINNEAPOLIS CENTER  
**127.6 279.6**

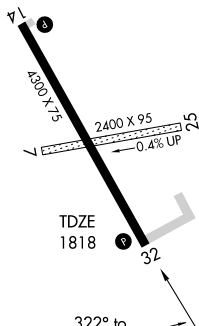
UNICOM  
**122.8 (CTAF) Ø**

CANADA  
 UNITED STATES

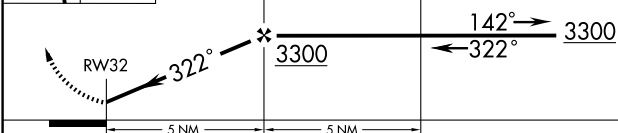
△2554



ELEV 1822



MIRL Rwy 14-32 Ø



CATEGORY	A	B	C	D
S-32	2340-1	522 (600-1)	2340-1½ 522 (600-1½)	2340-1¾ 522 (600-1¾)
CIRCLING	2460-1	638 (700-1)	2480-1¾ 658 (700-1¾)	2660-2¾ 838 (900-2¾)

**RUGBY MUNI** (RUG) 2 NW UTC-6(-5DT) N48°23.42' W100°01.46'

TWIN CITIES

1548 B FUEL 100LL NOTAM FILE GFK

L-14F

RWY 12-30: H3604X60 (ASPH) S-12.5 MIRL 0.4% up SE

IAP

RWY 12: PAPI(P2L)—GA 3.0° TCH 27'. P-line.

RWY 30: PAPI(P2L)—GA 3.0° TCH 20'. Road.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z±, Sat and Sun on call. For attendant Sat-Sun call 701-776-5171/5176/5746/6715/5523. Self svc 24 hr credit card fuel system avbl. Deer and birds on and invof arpt. Waterfowl in wetlands Apr-May and Sep-Nov 3000' outbound Rwy 30. Rwy 12-30 confirm winter rwy conditions with arpt manager 701-776-5171/5176 prior to use. ACTIVATE MIRL Rwy 12-30, and PAPI Rwy 12 and Rwy 30—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.475 (701) 776-6100.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DVL.

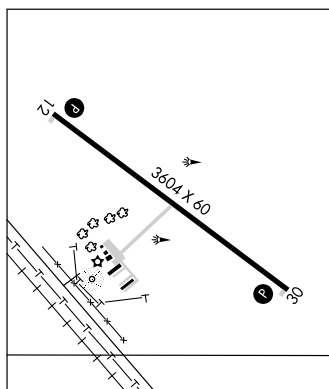
DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91'

W98°54.75' 284° 47.5 NM to fld. 1448/7E.

NDB (MHW) 212 RUG N48°23.27' W100°01.62' at fld.

NOTAM FILE GFK.

**COMM/NAV/WEATHER REMARKS:** Communications provided by Grand Forks Radio on frequency 122.2 (Minot RCO).



**SABON** N46°51.77' W98°34.84' NOTAM FILE JMS.

TWIN CITIES

NDB (LOM) 395 JM 307° 5.7 NM to Jamestown Rgnl.

**ST THOMAS MUNI** (4S5) 1 NE UTC-6(-5DT) N48°37.58' W97°26.35'

TWIN CITIES

837 S2 NOTAM FILE GFK

RWY 17-35: H2600X50 (ASPH) S-5 LIRL (NSTD)

RWY 17: Thld dsplcd 280'. Trees. RWY 35: Thld dsplcd 70'. Trees.

**AIRPORT REMARKS:** Attended May-Sept dalgt hrs, Oct-Apr Mon-Fri on call. For arpt attendant during other hrs call 701-257-6629. Rwy 17-35 expect turbulence when executing cross-wind ldgs. Deer and birds on and invof arpt. Confirm winter condition and snow removal with arpt manager call 701-257-6629/6830/6630 or cell 520-1597/2903. Rwy 17-35 NSTD LIRL due to fixtures and located 15' from rwy edge. Rwy 17 dsplcd thld marked with green lgts-ngt ops only. Rwy 35 dsplcd thld marked with green lgts-ngt ops only. ACTIVATE LIRL Rwy 17-35—122.8.

**COMMUNICATIONS:** CTAF 122.9

**SKY HAVEN** (See ENDERLIN)

**SLOULIN FLD INTL** (See WILLISTON)

**STANDING ROCK** (See FORT YATES)

**STANLEY MUNI** (Ø8D) 1 SW UTC-6(-5DT) N48°18.05' W102°24.38'

BILLINGS

2245 B S2 FUEL 100LL, JET A NOTAM FILE GFK

L-14F

RWY 09-27: H3900X60 (ASPH) S-14 MIRL

IAP

RWY 09: Pole. RWY 27: PAPI(P2L)—GA 3.0° TCH 32'. Road.

**AIRPORT REMARKS:** Attended on call. Self svc 24 hr credit card fueling system avbl. For arpt attendance schedule call 701-628-2110/629-0345. Jet A fuel unavbl. Deer and birds on and invof arpt. Due to snow Nov-Mar, call 701-628-2110 or 629-0345 to check on rwy condition prior to use. Loose gravel in the refuel area. Rotating bcn OTS indef. ACTIVATE MIRL Rwy 09-27 and PAPI Rwy 27—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 121.1 (701) 628-1737.

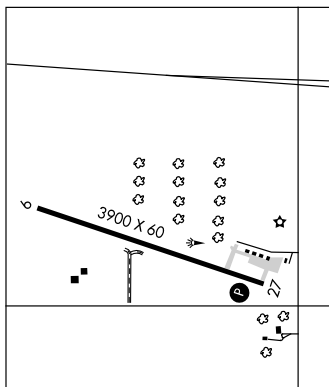
**COMMUNICATIONS:** CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 127.6

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISN.

WILLISTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21'

W103°45.04' 074° 54.0 NM to fld. 2372/12E. HIWAS.



APP CRS  
**120°**

Rwy Idg **3604**  
TDZE **1540**  
Apt Elev **1548**

**GPS RWY 12**  
RUGBY MUNI (RUG)



Use Devils Lake altimeter setting.

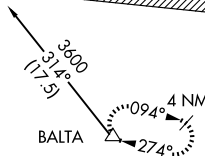
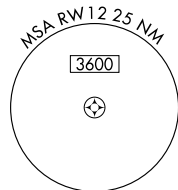
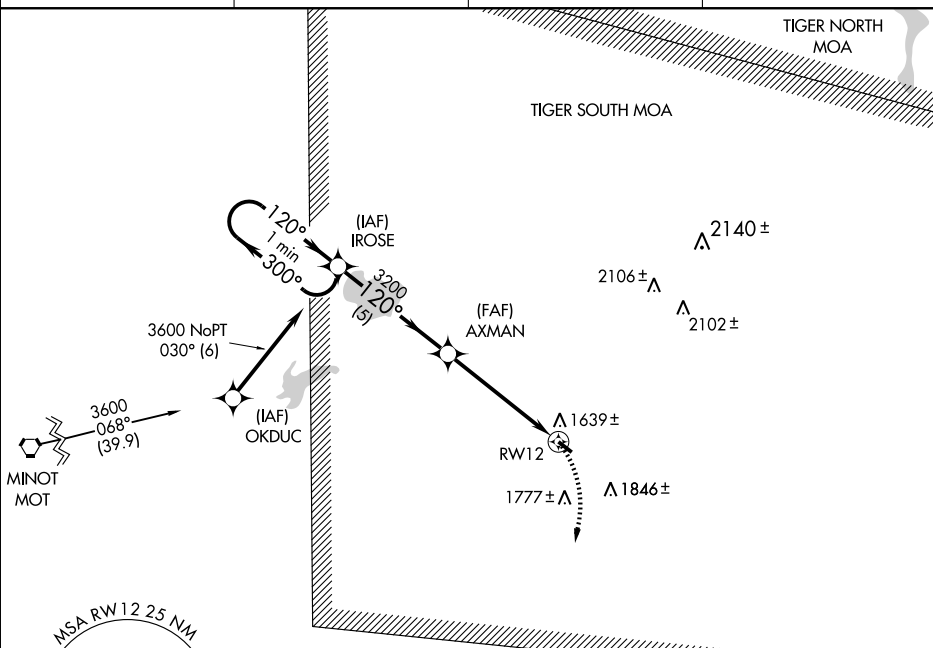
MISSED APPROACH: Climbing right turn to 3600 direct BALTA WP and hold.

AWOS-3  
**118.475**

DEVILS LAKE AWOS-3  
**125.875**

GRAND FORKS RADIO  
**122.2**

UNICOM  
**122.8** (CTAF) **1**



ELEV 1548

120° to RW12

TDZE 1540

3604 x 60

0.4% UP

1648±

30

One Minute Holding Pattern

IROSE

AXMAN

3600

BALTA

△

3600

←300°

120°→

120°

3200

RW12

5 NM

5 NM

CATEGORY

A

B

C

D

S-12

2020-1

480 (500-1)

2020-1¼

480 (500-1¼)

NA

CIRCLING

2160-1

612 (700-1)

2160-1¾

612 (700-1¾)

NA

MIRL Rwy 12-30 **1**

APP CRS **301°**  
 Rwy Idg **3604**  
 TDZE **1548**  
 Apt Elev **1548**

**GPS RWY 30**  
 RUGBY MUNI (RUG)

▲ NA

Use Devils Lake altimeter setting.

**IAF** ARM APPROACH MODE PRIOR TO IAF.

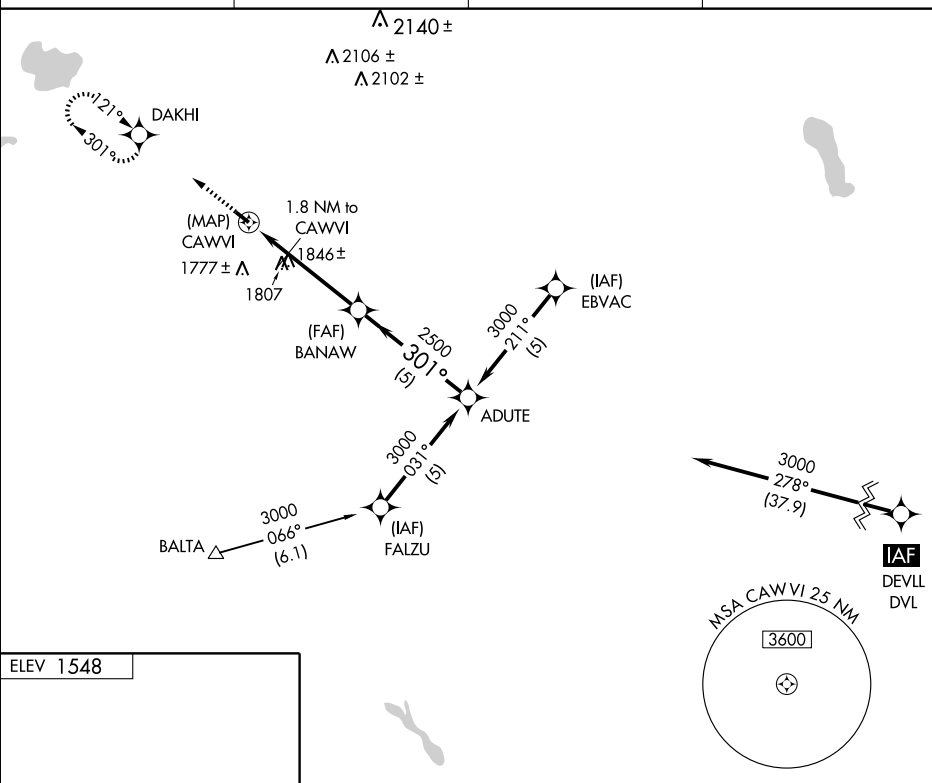
MISSED APPROACH: Climb to 3500 direct DAKHI WP and hold.

AWOS-3  
**118.475**

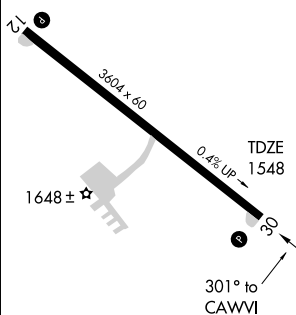
DEVILS LAKE AWOS-3  
**125.875**

GRAND FORKS RADIO  
**122.2**

UNICOM  
**122.8** (CTAF) **0**



ELEV 1548



MIRL Rwy 12-30 **0**

RUGBY, NORTH DAKOTA

Orig-B 09351

3500		DAKHI		Procedure Turn NA	
↑		✧		ADUTE	
1.8 NM to CAWVI		BANAW		301°	
CAWVI		2280		3000	
1.8		3.2 NM		5 NM	
CATEGORY	A	B	C	D	
S-30	2080-1	532 (600-1)	2080-1½ 532 (600-1½)	NA	
CIRCLING	2140-1	592 (600-1)	2140-1½ 592 (600-1½)	NA	

48°23'N - 100°01'W

**GPS RWY 30**

**RUGBY MUNI** (RUG) 2 NW UTC-6(-5DT) N48°23.42' W100°01.46'

TWIN CITIES

1548 B FUEL 100LL NOTAM FILE GFK

L-14F

RWY 12-30: H3604X60 (ASPH) S-12.5 MIRL 0.4% up SE

IAP

RWY 12: PAPI(P2L)—GA 3.0° TCH 27'. P-line.

RWY 30: PAPI(P2L)—GA 3.0° TCH 20'. Road.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z†, Sat and Sun on call. For attendant Sat-Sun call 701-776-5171/5176/5746/6715/5523. Self svc 24 hr credit card fuel system avbl. Deer and birds on and in/ovf arpt. Waterfowl in wetlands Apr-May and Sep-Nov 3000' outbound Rwy 30. Rwy 12-30 confirm winter rwy conditions with arpt manager 701-776-5171/5176 prior to use. ACTIVATE MIRL Rwy 12-30, and PAPI Rwy 12 and Rwy 30—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.475 (701) 776-6100.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DVL.

DEVILS LAKE (L) VORW/DME 111.0 DVL Chan 47 N48°06.91'

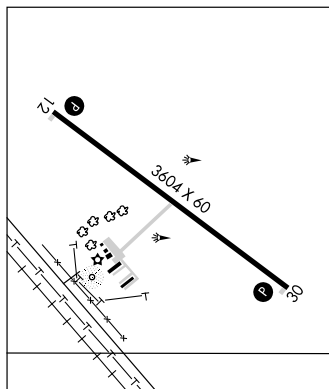
W98°54.75' 284° 47.5 NM to fld. 1448/7E.

NDB (MHW) 212 RUG N48°23.27' W100°01.62' at fld.

NOTAM FILE GFK.

**COMM/NAV/WEATHER REMARKS:** Communications provided by Grand Forks

Radio on frequency 122.2 (Minot RCO).



**SABON** N46°51.77' W98°34.84' NOTAM FILE JMS.

TWIN CITIES

NDB (LOM) 395 JM 307° 5.7 NM to Jamestown Rgnl.

**ST THOMAS MUNI** (4S5) 1 NE UTC-6(-5DT) N48°37.58' W97°26.35'

TWIN CITIES

837 S2 NOTAM FILE GFK

RWY 17-35: H2600X50 (ASPH) S-5 LIRL (NSTD)

RWY 17: Thld dsplcd 280'. Trees.

RWY 35: Thld dsplcd 70'. Trees.

**AIRPORT REMARKS:** Attended May-Sept dalgst hrs, Oct-Apr Mon-Fri on call. For arpt attendant during other hrs call 701-257-6629. Rwy 17-35 expect turbulence when executing cross-wind lds. Deer and birds on and in/ovf arpt. Confirm winter condition and snow removal with arpt manager call 701-257-6629/6830/6630 or cell 520-1597/2903. Rwy 17-35 NSTD LIRL due to fixtures and located 15' from rwy edge. Rwy 17 dsplcd thld marked with green lgts-ngt ops only. Rwy 35 dsplcd thld marked with green lgts-ngt ops only. ACTIVATE LIRL Rwy 17-35—122.8.

**COMMUNICATIONS:** CTAF 122.9

**SKY HAVEN** (See ENDERLIN)

**SLOULIN FLD INTL** (See WILLISTON)

**STANDING ROCK** (See FORT YATES)

**STANLEY MUNI** (Ø8D) 1 SW UTC-6(-5DT) N48°18.05' W102°24.38'

BILLINGS

2245 B S2 FUEL 100LL, JET A NOTAM FILE GFK

L-14F

RWY 09-27: H3900X60 (ASPH) S-14 MIRL

IAP

RWY 09: Pole.

RWY 27: PAPI(P2L)—GA 3.0° TCH 32'. Road.

**AIRPORT REMARKS:** Attended on call. Self svc 24 hr credit card fueling system avbl. For arpt attendance schedule call 701-628-2110/629-0345. Jet A fuel unavbl. Deer and birds on and in/ovf arpt. Due to snow Nov-Mar, call 701-628-2110 or 629-0345 to check on rwy condition prior to use. Loose gravel in the refuel area. Rotating bcn OTS indef. ACTIVATE MIRL Rwy 09-27 and PAPI Rwy 27—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 121.1 (701) 628-1737.

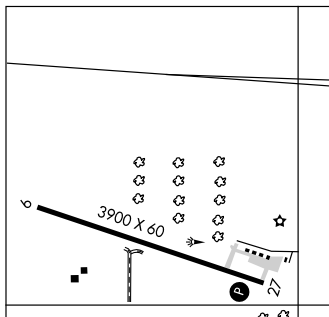
**COMMUNICATIONS:** CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 127.6

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISN.

WILLISTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21'

W103°45.04' 074° 54.0 NM to fld. 2372/12E. HIWAS.



APP CRS <b>278°</b>	Rwy Idg TDZE <b>2244</b> Apt Elev <b>2245</b>
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# RNAV (GPS) RWY 27

STANLEY MUNI (Ø8D)

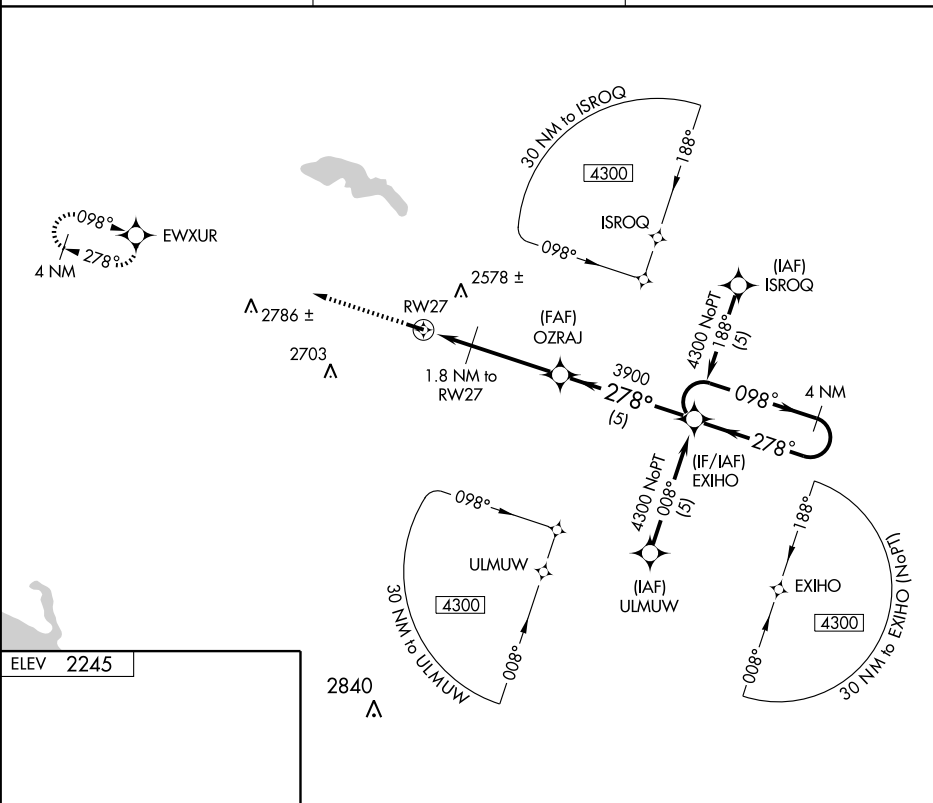
**NA** Use Minot altimeter setting.  
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 5000 direct EWXUR WP and hold.

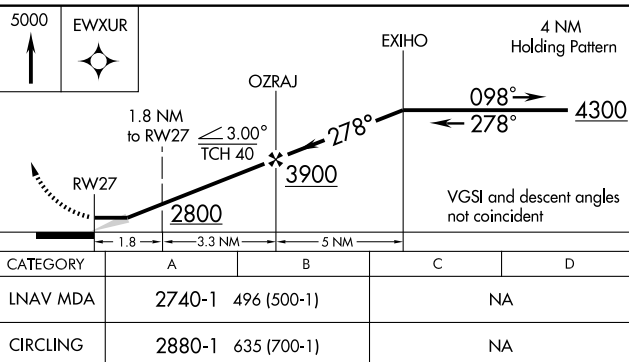
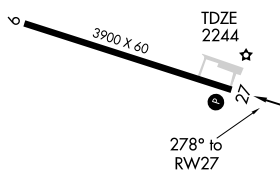
AWOS-3  
**121.1**

MINNEAPOLIS CENTER  
**127.6 279.6**

CTAF  
**122.9 0**



ELEV **2245**



MRL Rwy 9-27 **0**

**TIOGA MUNI** (D60) 2 SE UTC-6(-5DT) N48°22.82' W102°53.84'

2271 B S4 FUEL 100LL, JET A OX 4 NOTAM FILE GFK

RWY 12-30: H5102X75 (ASPH) S-12.5 MIRL 0.6% up SE

RWY 12: PAPI(P2L)—GA 3.0° TCH 25'.

RWY 30: PAPI(P2L)—GA 3.0° TCH 25'. Road.

RWY 03-21: 3200X120 (TURF) 0.6% up SW

RWY 03: Road.

**AIRPORT REMARKS:** Attended dalgat hrs. Arpt svcs phone 701-664-2220 or city police 701-664-2514 after hrs on call. For fuel call city police 701-664-2514. Confirm snow removal on turf Rwy 03-21 after major storm 701-664-2220 or 701-641-3277. Deer and birds on and in/ov arpt. Rwy 03-21 marked with edge and end dalgat cone markers, twy and apron marked with reflectors. Rwy 03-21 surface uneven due to grass clumps especially S half. Rwy 03-21 intersection soft when wet. Rwy 12-30 MIRL preset low ints, to increase ints ACTIVATE PAPI Rwy 12 and Rwy 30—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.575 (701) 664-4490.

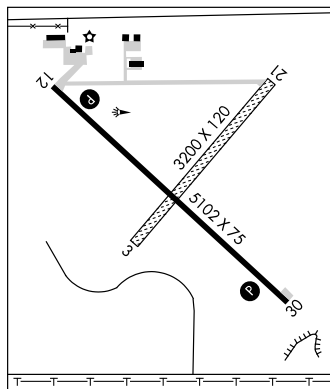
**COMMUNICATIONS:** CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 127.6

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISN.

WILLISTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21'

W103°45.04' 065° 35.0 NM to fld. 2372/12E. HIWAS.



BILLINGS

H-26, L-13E, 14F

IAP

**TOMLINSON FLD** (See NEW ROCKFORD)

**TOWNER MUNI** (D61) 1 NE UTC-6(-5DT) N48°21.50' W100°23.52'

TWIN CITIES

1484 B NOTAM FILE GFK

RWY 16-34: 3200X100 (TURF) LIRL

RWY 16: Fence. RWY 34: Road.

RWY 03-21: 2900X150 (TURF)

RWY 03: Road.

**AIRPORT REMARKS:** Unattended. Confirm winter conditions after snowstorm with arpt manager 701-537-5137/3519. 3' ditch SE end Rwy 16-34 and SW end Rwy 03-21. Rwy 03-21 has 5' rwy visibility sight clearance violation. Rwy 03-21 marked 3' wooden red markers on ends and intersection. Rwy 16-34 marked 3' wooded red markers on ends and intersection. Rwy 16 +30' pole 500' from thld; 100' right of extended centerline; apch ratio 16:1; +15' bldg 150' from thld 125' left of extended centerline; apch ratio 10:1. ACTIVATE LIRL Rwy 16-34—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

.....

HELIPAD H1: H30X30 (CONC)

**TRULSON FLD** (See PLAZA)

**TURTLE LAKE MUNI** (91N) 1 SW UTC-6(-5DT) N47°30.57' W100°54.96'

TWIN CITIES

1910 NOTAM FILE GFK

RWY 08-26: 3200X100 (TURF) LIRL

RWY 26: Trees.

**AIRPORT REMARKS:** Unattended. Confirm winter condition with arpt manager before use due to irregular snow removal, call 701-448-2253. Deer and wildlife on and in vicinity of arpt. Rwy 08-26 grass surface sparse on centerline 20' and grass clumping, soft surface when wet. Rwy 08 has 10' dropoff 50' out from thld. Rwy 08-26 during dalgat marked with yellow tires around lgts. ACTIVATE LIRL Rwy 08-26—CTAF.

**COMMUNICATIONS:** CTAF 122.8

**VALLEY CITY** N46°52.65' W97°54.84' NOTAM FILE GFK.

TWIN CITIES

NDB (MHW) 382 VCY 305° 5.7 NM to Barnes Co Muni.

L-14F



APP CRS **303°**  
 Rwy Idg **5102**  
 TDZE **2271**  
 Apt Elev **2271**

# RNAV (GPS) RWY 30

TIOGA MUNI (D60)

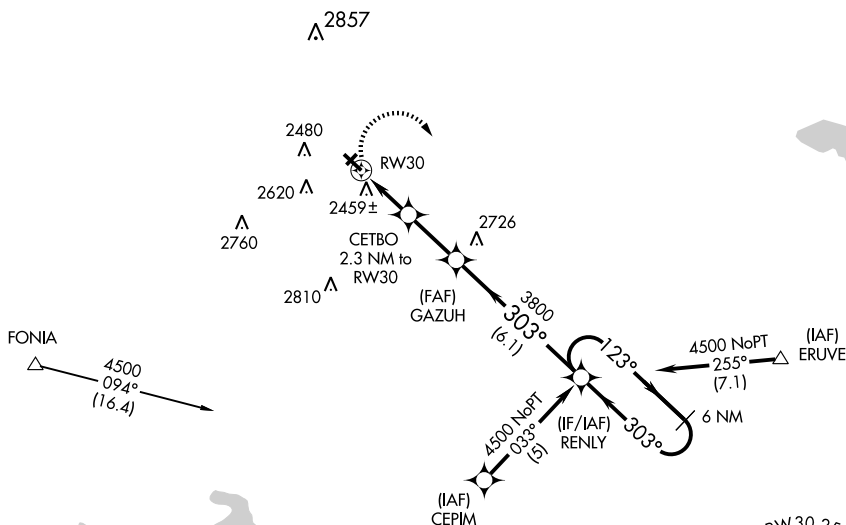
▼ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Williston altimeter setting and increase all MDA 120 feet and increase LNAV Cat C and D visibility ½ mile; Circling Cat C and D visibility ½ mile.

MISSED APPROACH:  
 Climbing right turn to 4500  
 direct RENLY and hold.

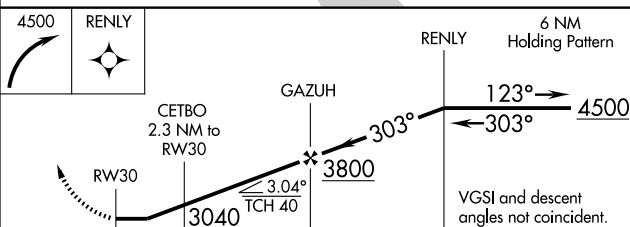
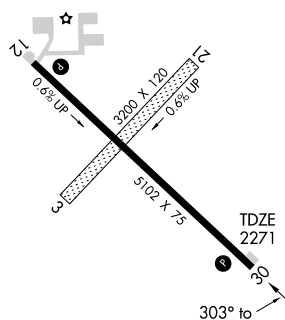
AWOS-3  
**118.575**

MINNEAPOLIS CENTER  
**127.6 279.6**

CTAF  
**122.9 0**



ELEV 2271



CATEGORY	A	B	C	D
LNAV MDA	2720-1 449 (500-1)	2720-1¼ 449 (500-1¼)	2720-1½ 449 (500-1½)	2720-1½ 449 (500-1½)
CIRCLING	2760-1 489 (500-1)	2840-1 569 (600-1)	2840-1½ 569 (600-1½)	2980-2¼ 709 (800-2¼)

## VALLEY CITY

BARNES CO MUNI (BAC) 1 NW UTC-6(-5DT) N46°56.47' W98°01.08'

TWIN CITIES

1402 B S4 FUEL 100LL, JET A NOTAM FILE GFK  
 RWY 13-31: H4202X75 (ASPH) S-12.5 MIRL 0.4% up NW

RWY 13: REIL. PAPI(P2L)—GA 3.0° TCH 31'. Hill.

RWY 31: REIL. PAPI(P2L)—GA 3.0° TCH 26' Tree.

RWY 17-35: 3626X100 (TURF)

RWY 17: Hill. RWY 35: Tree.

RWY 08-26: 2701X100 (TURF)

RWY 08: Trees.

RWY 05-23: 2637X100 (TURF)

RWY 05: Pole.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z, Sat and Sun on call. For arpt attendant after hours call 701-845-2587. Self svc 24 hr credit card fuel avbl. Rwy 5-23, 8-26 and 17-35 CLSD winter months due to lack of snow removal. Deer on and invof arpt. Confirm snow removal and winter conditions during Nov-Mar, call 701-845-2587. Rwy 05-23, Rwy 08-26 and Rwy 17-35 marked with dalgt boundary markers and nighttime reflector every 400'. Rwy 13-31 preset on medium ints to increase ints and ACTIVATE PAPI and REIL Rwy 13 and Rwy 31—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.725 (701) 845-9117.**COMMUNICATIONS:** CTAF/UNICOM 122.8

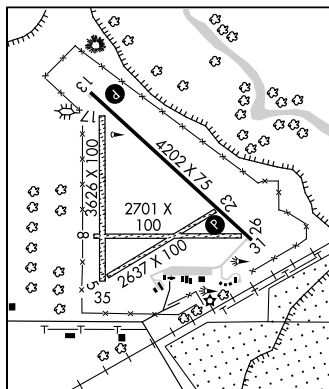
⑧ MINNEAPOLIS CENTER APP/DEP CON 124.2

**RADIO AIDS TO NAVIGATION:** NOTAM FILE JMS.

JAMESTOWN (L) VORW/DME 114.5 JMS Chan 92 N46°55.97' W98°40.73' 079° 27.2 NM to fld. 1493/10E.

HIWAS.

VALLEY CITY NDB (MHW) 382 VCY N46°52.65' W97°54.84' 305° 5.7 NM to fld. NOTAM FILE GFK.



VIKOR N48°02.13' W98°48.23' NOTAM FILE DVL.

TWIN CITIES

NDB (LOM) 332 VK 311° 6.3 NM to Devils Lake Rgnl.

## WAHPETON

HARRY STERN (BWP) 1 S UTC-6(-5DT) N46°14.66' W96°36.43'

TWIN CITIES

968 B S4 FUEL 100LL, JET A NOTAM FILE GFK

H-2H, L-14H

RWY 15-33: H5100X75 (ASPH) S-20 MIRL

IAP

RWY 15: REIL. PAPI(P2L)—GA 3.0° TCH 24'. Tree.

RWY 33: REIL. PAPI(P2L)—GA 3.0° TCH 24'. Trees.

RWY 03-21: 3254X150 (TURF)

RWY 03: Trees. RWY 21: Tower.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z, Sat-Sun on call. For svc after hrs call arpt manager 701-642-5777/3232. Self svc credit card fuel system avbl 24 hrs. Rwy 03-21 CLOSED winter months due to lack of snow removal. Deer and birds on or invof arpt. 41' Trees 1400' from Rwy 31 thld 100' left and right of centerline. Safety area cultivated uneven dirt, soft and wet. Rwy 03-21 marked with edge and corner dalgt metal markers painted red and white. MIRL Rwy 15-33 preset low ints, to increase intensity and ACTIVATE REIL Rwy 15 and Rwy 33 and PAPI Rwy 15 and Rwy 33—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 127.875 (701) 642-9800.**COMMUNICATIONS:** CTAF/UNICOM 123.0

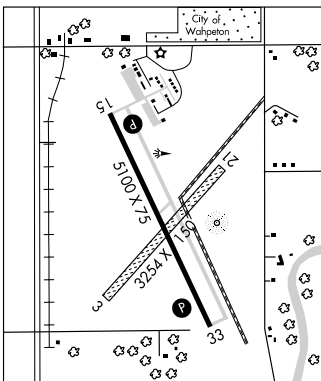
FARGO RCO 122.425 (GRAND FORKS RADIO)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE FAR.

FARGO (H) VORTACW 116.2 FAR Chan 109 N46°45.20'

W96°51.08' 153° 32.2 NM to fld. 910/9E. HIWAS.

BRECKENRIDGE-WAHPETON NDB (MHW) 233 BWP N46°14.69' W96°36.22' at fld. NOTAM FILE GFK.



NDB VCY <b>382</b>	APP CRS <b>306°</b>	Rwy Idg TDZE Apt Elev	<b>4202</b> <b>1393</b> <b>1400</b>
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# NDB or GPS RWY 31

VALLEY CITY/BARNES COUNTY MUNI (BAC)

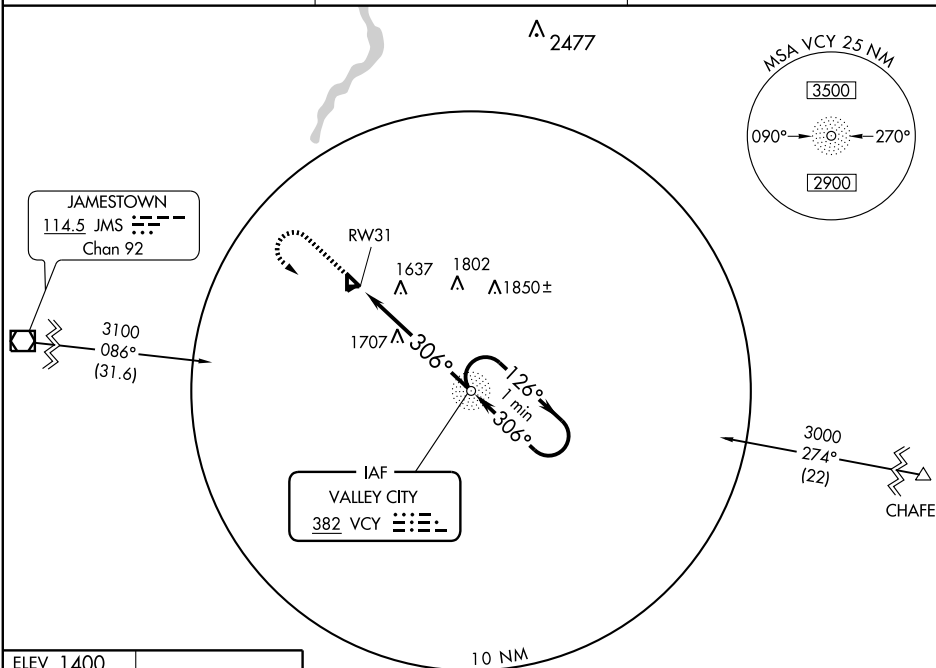
▼ Obtain local altimeter setting on CTAF; when not received use Jamestown altimeter setting.

MISSED APPROACH: Climb to 2500 then climbing left turn to 3000 direct VCY NDB and hold.

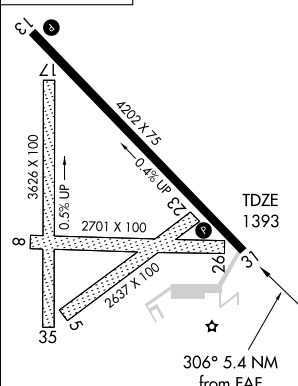
AWOS-3  
**118.725**

MINNEAPOLIS CENTER  
**124.2 270.3**

UNICOM  
**122.8 (CTAF)**



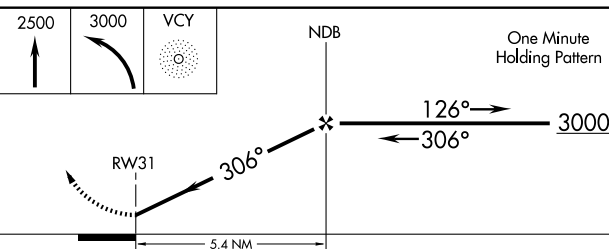
ELEV 1400



MRL Rwy 13-31  
REIL Rwy 13 and 31

FAF to MAP 5.4 NM

Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48



CATEGORY	A	B	C	D
S-31	2020-1	627 (700-1)	2020-1 $\frac{3}{4}$ 627 (700-1 $\frac{3}{4}$ )	NA
CIRCLING	2020-1	620 (700-1)	2020-1 $\frac{3}{4}$ 620 (700-1 $\frac{3}{4}$ )	NA
JAMESTOWN ALTIMETER SETTING MINIMUMS				
S-31	2120-1	727 (800-1)	2120-2 727 (800-2)	NA
CIRCLING	2120-1	720 (800-1)	2120-2 720 (800-2)	NA

VALLEY CITY, NORTH DAKOTA

Amdt 3 10210

VALLEY CITY/BARNES COUNTY MUNI (BAC)

46°56'N - 98°01'W

# NDB or GPS RWY 31

WAAS  
CH **70618**  
**W13A**

APP CRS  
**127°**

Rwy Idg **4202**  
TDZE **1402**  
Apt Elev **1402**

# RNAV (GPS) RWY 13

VALLEY CITY/BARNES COUNTY MUNI (BAC)

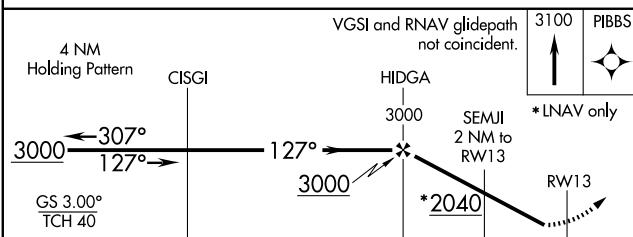
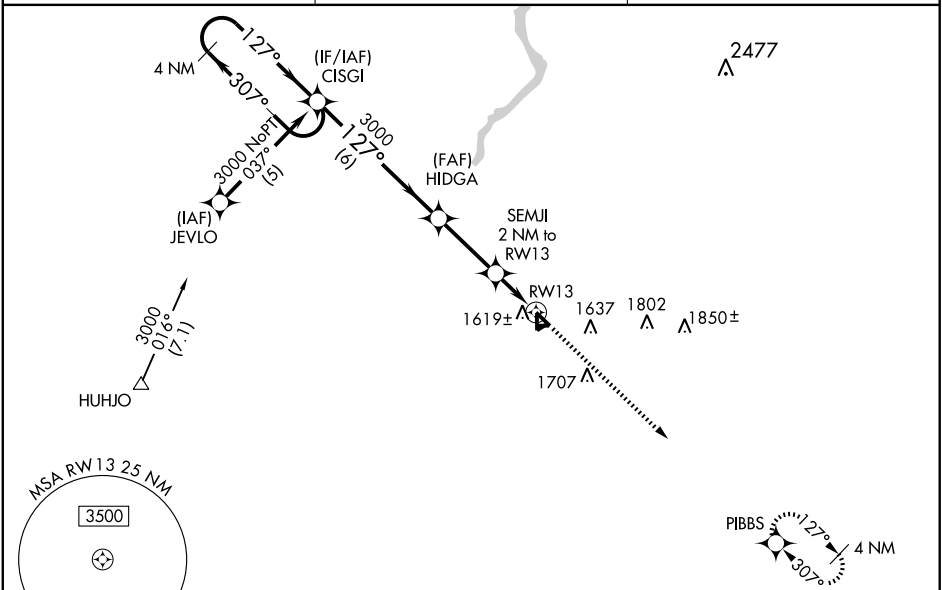
**NA** Baro-VNAV NA when using Jamestown altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Jamestown altimeter setting and increase all DA 77 feet and all MDA 80 feet, increase LPV all Cats, LNAV/VNAV all Cats and LNAV Cat C visibility ¼ mile, and increase Circling Cat C visibility ½ mile.

**MISSED APPROACH:**  
Climb to 3100 direct  
PIBBS and hold.

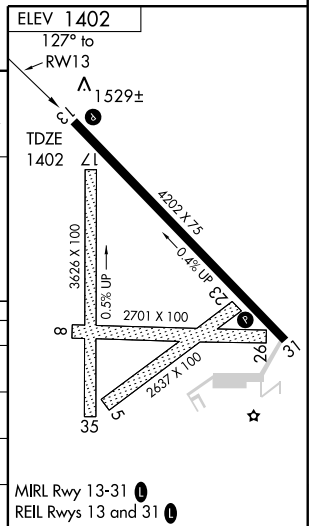
AWOS-3  
**118.725**

MINNEAPOLIS CENTER  
**124.2 270.3**

UNICOM  
**122.8 (CTAF)**



CATEGORY	A	B	C	D
LPV DA	1652-1	250 (300-1)		NA
LNAV/VNAV DA	1889-1¾	487 (500-1¾)		NA
LNAV MDA	1880-1	478 (500-1)	1880-1¾ 478 (500-1¾)	NA
CIRCLING	1920-1 518 (600-1)	2000-1 598 (600-1)	2000-1½ 598 (600-1½)	NA



WAAS CH <b>65918</b> <b>W31A</b>	APP CRS <b>307°</b>	Rwy Idg TDZE Apt Elev <b>1402</b>
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# RNAV (GPS) RWY 31

VALLEY CITY/BARNES COUNTY MUNI (BAC)

**NA** Baro-VNAV NA when using Jamestown altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Jamestown altimeter setting and increase LPV DA 77 feet and LNAV/VNAV DA 227 feet, and all MDA 80 feet; increase LPV all Cats visibility ¼ mile, LNAV/VNAV all Cats visibility ¾ mile and increase Circling Cat C visibility ½ mile.

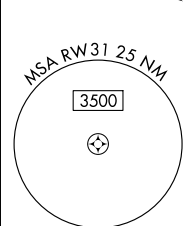
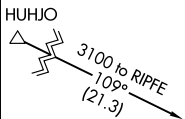
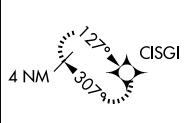
**MISSED APPROACH:**  
Climb to 3000 direct  
CISGI and hold.

AWOS-3  
**118.725**

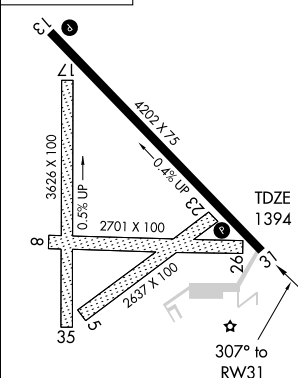
MINNEAPOLIS CENTER  
**124.2 270.3**

UNICOM  
**122.8 (CTAF) 0**

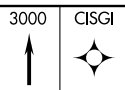
MISSED APCH FIX



ELEV 1402

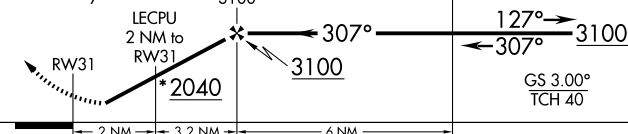


MIRL Rwy 13-31 0  
REIL Rwy 13 and 31 0



VGSI and RNAV glidepath  
not coincident.

\*LNAV only



CATEGORY	A	B	C	D
LPV DA	1644-1	250 (300-1)		NA
LNAV/VNAV DA	1717-1¼	323 (400-1¼)		NA
LNAV MDA	1900-1	506 (500-1)	1900-1½ 506 (500-1½)	NA
CIRCLING	1920-1 518 (600-1)	2000-1 598 (600-1)	2000-1½ 598 (600-1½)	NA

VALLEY CITY, NORTH DAKOTA

Orig 29JUL10

VALLEY CITY/BARNES COUNTY MUNI (BAC)

46°56'N - 98°01'W

# RNAV (GPS) RWY 31

## VALLEY CITY

BARNES CO MUNI (BAC) 1 NW UTC-6(-5DT) N46°56.47' W98°01.08'

TWIN CITIES

1402 B S4 FUEL 100LL, JET A NOTAM FILE GFK  
 RWY 13-31: H4202X75 (ASPH) S-12.5 MIRL 0.4% up NW

RWY 13: REIL. PAPI(P2L)—GA 3.0° TCH 31'. Hill.

RWY 31: REIL. PAPI(P2L)—GA 3.0° TCH 26' Tree.

RWY 17-35: 3626X100 (TURF)

RWY 17: Hill. RWY 35: Tree.

RWY 08-26: 2701X100 (TURF)

RWY 08: Trees.

RWY 05-23: 2637X100 (TURF)

RWY 05: Pole.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z, Sat and Sun on call. For arpt attendant after hours call 701-845-2587. Self svc 24 hr credit card fuel avbl. Rwy 5-23, 8-26 and 17-35 CLSD winter months due to lack of snow removal. Deer on and invof arpt. Confirm snow removal and winter conditions during Nov-Mar, call 701-845-2587. Rwy 05-23, Rwy 08-26 and Rwy 17-35 marked with dalgt boundary markers and nighttime reflector every 400'. Rwy 13-31 preset on medium ints to increase ints and ACTIVATE PAPI and REIL Rwy 13 and Rwy 31—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.725 (701) 845-9117.**COMMUNICATIONS:** CTAF/UNICOM 122.8

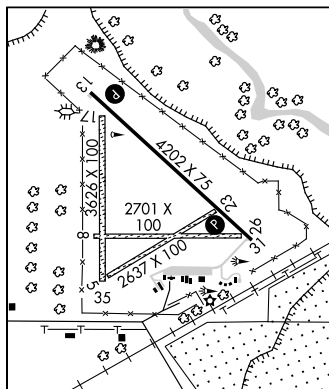
⑧ MINNEAPOLIS CENTER APP/DEP CON 124.2

**RADIO AIDS TO NAVIGATION:** NOTAM FILE JMS.

JAMESTOWN (L) VORW/DME 114.5 JMS Chan 92 N46°55.97' W98°40.73' 079° 27.2 NM to fld. 1493/10E.

HIWAS.

VALLEY CITY NDB (MHW) 382 VCY N46°52.65' W97°54.84' 305° 5.7 NM to fld. NOTAM FILE GFK.



VIKOR N48°02.13' W98°48.23' NOTAM FILE DVL.

TWIN CITIES

NDB (LOM) 332 VK 311° 6.3 NM to Devils Lake Rgnl.

## WAHPETON

HARRY STERN (BWP) 1 S UTC-6(-5DT) N46°14.66' W96°36.43'

TWIN CITIES

968 B S4 FUEL 100LL, JET A NOTAM FILE GFK

H-2H, L-14H

RWY 15-33: H5100X75 (ASPH) S-20 MIRL

IAP

RWY 15: REIL. PAPI(P2L)—GA 3.0° TCH 24'. Tree.

RWY 33: REIL. PAPI(P2L)—GA 3.0° TCH 24'. Trees.

RWY 03-21: 3254X150 (TURF)

RWY 03: Trees. RWY 21: Tower.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2300Z, Sat-Sun on call. For svc after hrs call arpt manager 701-642-5777/3232. Self svc credit card fuel system avbl 24 hrs. Rwy 03-21 CLOSED winter months due to lack of snow removal. Deer and birds on or invof arpt. 41' Trees 1400' from Rwy 31 thld 100' left and right of centerline. Safety area cultivated uneven dirt, soft and wet. Rwy 03-21 marked with edge and corner dalgt metal markers painted red and white. MIRL Rwy 15-33 preset low ints, to increase intensity and ACTIVATE REIL Rwy 15 and Rwy 33 and PAPI Rwy 15 and Rwy 33—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 127.875 (701) 642-9800.**COMMUNICATIONS:** CTAF/UNICOM 123.0

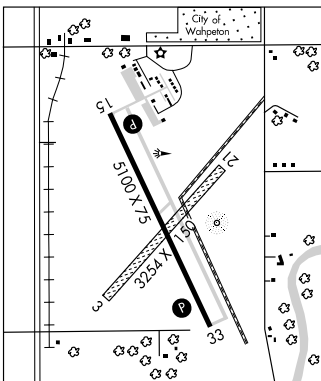
FARGO RCO 122.425 (GRAND FORKS RADIO)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE FAR.

FARGO (H) VORTACW 116.2 FAR Chan 109 N46°45.20'

W96°51.08' 153° 32.2 NM to fld. 910/9E. HIWAS.

BRECKENRIDGE-WAHPETON NDB (MHW) 233 BWP N46°14.69' W96°36.22' at fld. NOTAM FILE GFK.



NDB BWP <b>233</b>	APP CRS <b>342°</b>	Rwy Idg TDZE Apt Elev	<b>5100</b> <b>967</b> <b>968</b>
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**NDB RWY 33**

WAHPETON/HARRY STERN (BWP)

▼ If local altimeter setting not received, use Fergus Falls,  
 ▲ NA MN altimeter setting and increase all MDAs 80 feet.

MISSED APPROACH: Climb to 2500 then left turn direct  
 BWP NDB and hold.

AWOS-3  
**127.875**

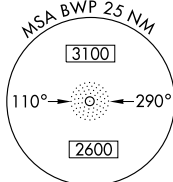
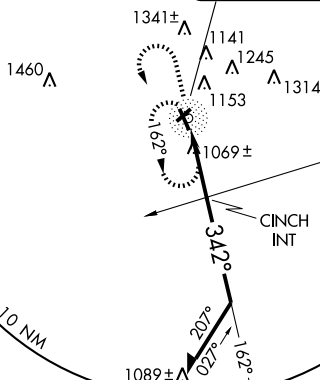
GRAND FORKS RADIO  
**122.425**

UNICOM  
**123.0 (CTAF) 0**

FARGO  
 116.2 FAR  
 Chan 109

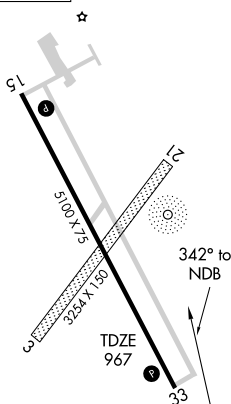
1567 ▲

IAF  
 BRECKENRIDGE-  
 WAHPETON  
 233 BWP



ALEXANDRIA  
 112.8 AXN  
 Chan 75

ELEV 968

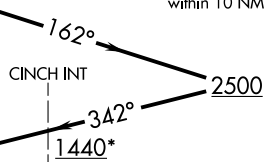


2500  
 ↑

BWP  
 233

NDB

Remain  
 within 10 NM



\*1520 when using  
 Fergus Falls altimeter setting.

CATEGORY	A	B	C	D
S-33	1440-1	473 (500-1)	1440-1¼ 473 (500-1¼)	1440-1½ 473 (500-1½)
CIRCLING	1520-1	552 (600-1)	1520-1½ 552 (600-1½)	1560-2 592 (600-2)
CINCH FIX MINIMUMS				
S-33	1380-1	413 (500-1)	1380-1¼ 413 (500-1¼)	1380-1½ 413 (500-1½)
CIRCLING	1520-1	552 (600-1)	1520-1½ 552 (600-1½)	1560-2 592 (600-2)

REIL Rwy 15 and 33  
 MRL Rwy 15-33

WAHPETON, NORTH DAKOTA  
 Amdt 5 09015

WAHPETON/HARRY STERN (BWP)

46°15'N-96°36'W

**NDB RWY 33**

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

APP CRS <b>151°</b>	Rwy Idg TDZE Apt Elev	<b>5100</b> <b>968</b> <b>968</b>
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## RNAV (GPS) RWY 15

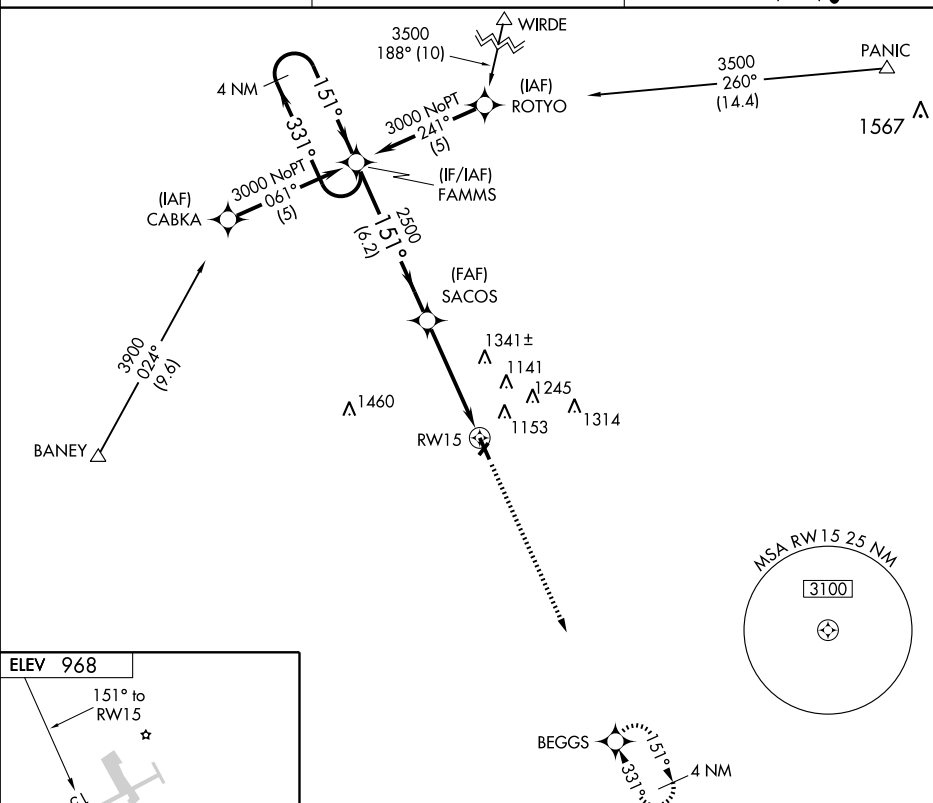
WAHPETON/HARRY STERN (BWP)

<b>T</b>	DME/DME RNP-0.3 NA. Circling to Rwy 3/21 NA at night.
<b>A</b> NA	If local altimeter setting not received, use Fergus Falls, MN altimeter setting and increase all MDAs 80 feet. VDP NA when using Fergus Falls, MN altimeter setting.

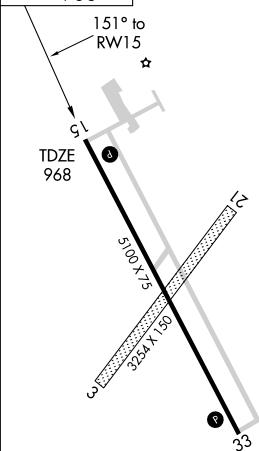
**MISSED APPROACH:** Climb to 3000 direct BEGGS and hold.

AWOS-3  
**127,875**

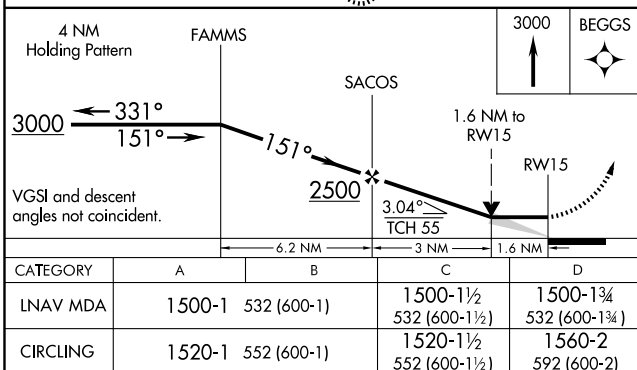
GRAND FORKS RADIO  
**122.425**

UNICOM  
123.0 (CTAF) **L**

ELEV	968
------	-----



MIRL Rwy 15-33 **L**  
REIL Rwy 15 and 3



WAHPETON, NORTH DAKOTA

Orig-A 08269

46°15'N-96°36'W

WAHPETON/ HARRY STERN (BWP)

## RNAV (GPS) RWY 15

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1. 26 AUG 2010 to 23 SEP 2010



APP CRS **331°**  
 Rwy ldg **5100**  
 TDZE **967**  
 Apt Elev **968**

# RNAV (GPS) RWY 33

WAHPETON/HARRY STERN (BWP)

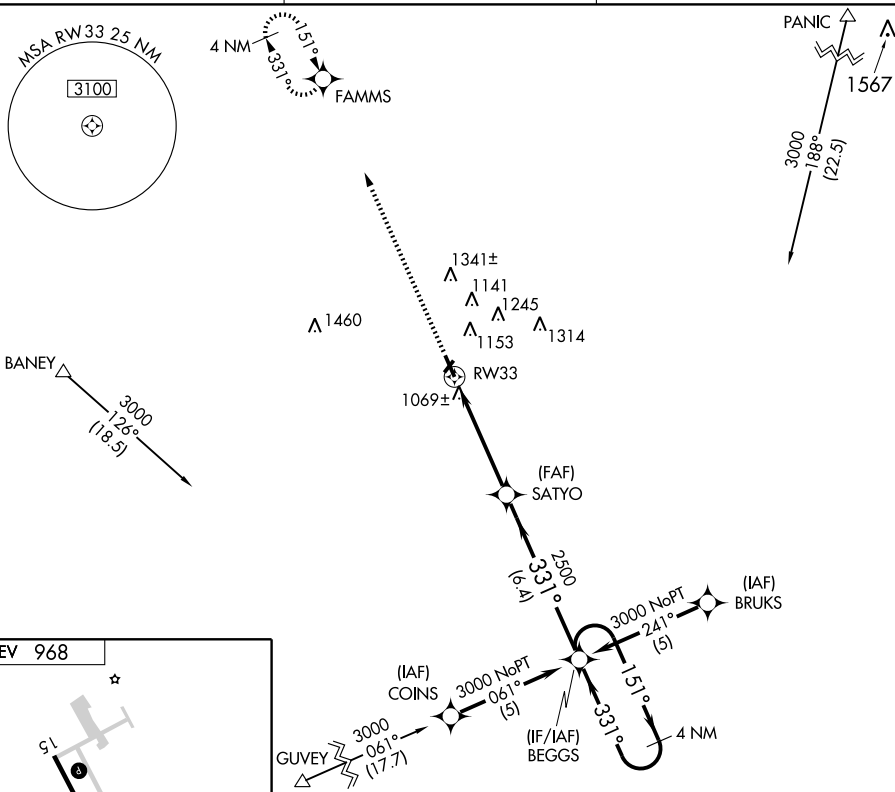
**NA** DME/DME RNP-0.3 NA. When local altimeter setting not received, use Fergus Falls, MN altimeter setting and increase all MDA 80 feet and LNAV Cat C/D visibility ¼ mile.  
 VDP NA when using Fergus Falls, MN altimeter setting.

MISSED APPROACH: Climb to 3000 direct FAMMS and hold.

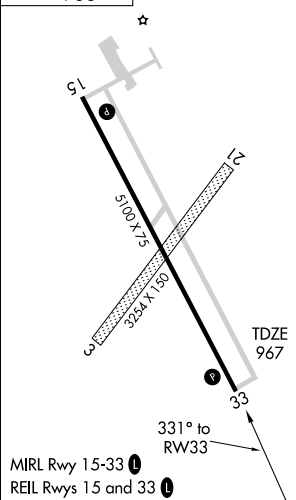
AWOS-3  
**127.875**

GRAND FORKS RADIO  
**122.425**

UNICOM  
**123.0 (CTAF)**



ELEV 968



MRL Rwy 15-33 **1**  
 REIL Rwy 15 and 33 **1**

WAHPETON, NORTH DAKOTA

Orig-A 01JUL10

46°15'N-96°36'W

WAHPETON/HARRY STERN (BWP)

# RNAV (GPS) RWY 33

NC-1, 26 AUG 2010 to 23 SEP 2010

3000	FAMMS	SATYO	BEGGS	4 NM Holding Pattern
1.1 NM to RW33	3.04° TCH 55	331°	151°	3000
1.1 NM	3.5 NM	6.4 NM		
CATEGORY	A	B	C	D
LNAV MDA	1340-1	373 (400-1)		1340-1½ 373 (400-1½)
CIRCLING	1520-1	552 (600-1)	1520-1½ 552 (600-1½)	1560-2 592 (600-2)

VGSI and descent angles not coincident.

**WALHALLA MUNI** (96D) 1 NE UTC-6(-5DT) N48°56.43' W97°54.17'

**TWIN CITIES**

953 B FUEL 100LL NOTAM FILE GFK

L-14G

RWY 15-33: H3400X60 (ASPH) S-12.5 MIRL

IAP

RWY 15: PAPI(P2L)—GA 3.0° TCH 27'. P-line.

RWY 33: PAPI(P2L)—GA 3.0° TCH 27'. Road.

**AIRPORT REMARKS:** Attended Oct-Mar on call, Apr-Sep dawn-dusk. For attendant other hrs call 701-549-3220. For fuel and services call 701-549-3500/3786. To confirm snow removal with arpt manager prior to use 701-549-3500/3786. Deer and birds on or invof arpt. Rwy 15 +53' trees 1650' from rwy end 150' left. Rwy 15 PAPI OTS indef. Parallel twy to Rwy 15-33 CLOSED indef. MIRL Rwy 15-33 and PAPI Rwy 15 and Rwy 33 opr dusk-0400Z†, after 0400Z‡ ACTIVATE—CTAF.

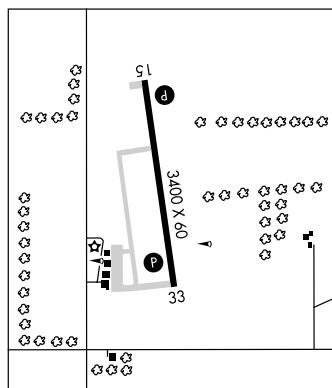
**COMMUNICATIONS:** CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 132.15

**RADIO AIDS TO NAVIGATION:** NOTAM FILE PNM.

HUMBOLDT (H) VORTAC 112.4 HML Chan 71 N48°52.15'

W97°07.03' 269° 31.4 NM to fld. 800/9E.



**WASHBURN MUNI** (5C8) 4 N UTC-6(-5DT) N47°21.18' W101°01.64'

**BILLINGS**

1905 B NOTAM FILE GFK

L-14F

RWY 08-26: H3700X60 (CONC) MIRL

RWY 08: PAPI(P2L)—GA 3.0° TCH 25'. Road.

RWY 26: PAPI(P2L)—GA 3.0° TCH 25'.

RWY 17-35: 2235X120 (TURF)

RWY 17: Road.

**AIRPORT REMARKS:** Unattended. For svc call 701-462-3796. Rwy 17-35 CLOSED winter months due to lack of snow removal. Waterfowl, blackbirds, deer and antelope on and invof arpt. Rwy 17-35 has water ponding during spring thaw or after heavy rains on south half of rwy. Confirm winter conditions with manager after major storm prior to use. Rwy 17-35 marked with dalgt boundary markers, black/white cones. ACTIVATE MIRL Rwy 08-26 and PAPI Rwy 08 and Rwy 26—CTAF. Low ints not avbl.

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BIS.

BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71' W100°39.92' 325° 38.4 NM to fld.

1841/12E. HIWAS.

**WATFORD CITY MUNI** (S25) 1 ESE UTC-6(-5DT) N47°47.80' W103°15.31'

**BILLINGS**

2111 B FUEL 100LL NOTAM FILE GFK

L-13E, 14F

RWY 12-30: H4402X75 (ASPH) S-12.5 MIRL 1.2% up SE

IAP

RWY 12: PAPI(P2L)—GA 3.0° TCH 27' Road.

RWY 30: PAPI(P2L)—GA 3.0° TCH 29' Hill.

RWY 18-36: 2401X150 (TURF)

RWY 36: P-lines.

**AIRPORT REMARKS:** Unattended. Self service 24 hr credit card fuel avbl.

Rwy 18-36 CLOSED winter months (Oct-Apr) due to lack of snow removal. Deer and antelope on or invof arpt. After winter storms confirm arpt conditions with arpt manager or City Hall, call 701-444-2523 or 570-0530. MIRL Rwy 12-30 preset on low ints dusk-0400Z†, to increase ints—CTAF, after 0400Z‡ ACTIVATE rotating bcn and PAPI Rws 12 and Rwy 30—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.125 (701) 842-4855.

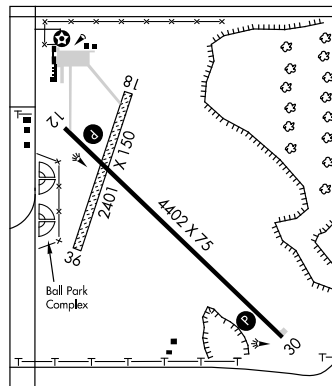
**COMMUNICATIONS:** CTAF/UNICOM 122.8

® SALT LAKE CITY CENTER APP/DEP CON 126.85

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISN.

WILLISTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21'

W103°45.04' 132° 34.0 NM to fld. 2372/12E. HIWAS.



**WEST FARGO MUNI** (See FARGO)

APP CRS <b>345°</b>	Rwy Idg TDZE Apt Elev	<b>3400</b> <b>953</b> <b>953</b>
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# RNAV (GPS) RWY 33

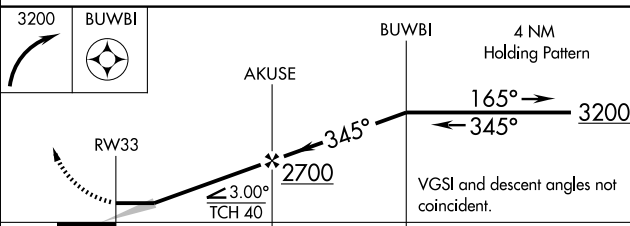
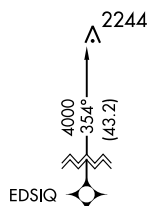
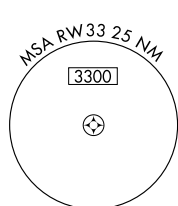
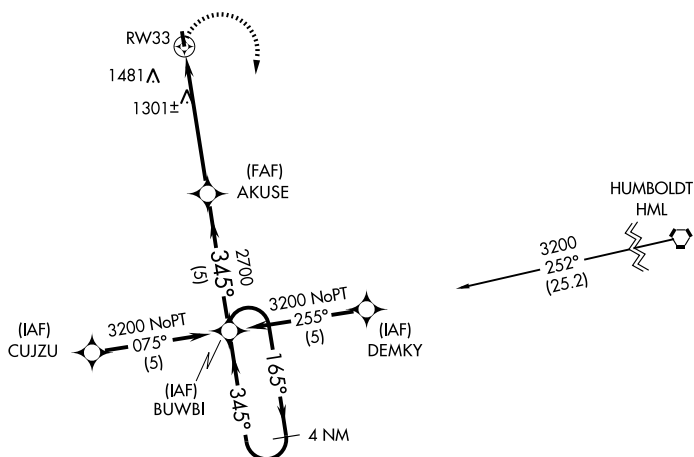
WALHALLA MUNI (96D)

**▲** NA Use Hallock Muni altimeter setting.  
GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

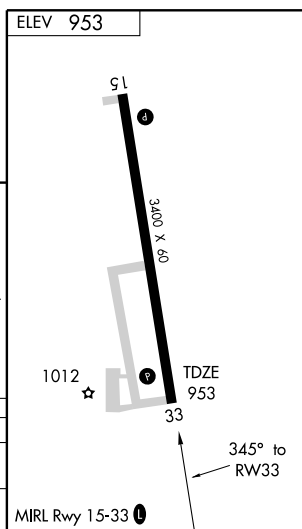
MISSED APPROACH: Climbing right turn to 3200 direct  
BUWBI WP and hold.

MINNEAPOLIS CENTER  
**132.15 269.6**

CTAF  
**122.9 0**



CATEGORY	A	B	C	D
RNAV MDA	1680-1	727 (800-1)	NA	NA
CIRCLING	1680-1	727 (800-1)	NA	NA



**WALHALLA MUNI** (96D) 1 NE UTC-6(-5DT) N48°56.43' W97°54.17'

**TWIN CITIES**

953 B FUEL 100LL NOTAM FILE GFK

L-14G

RWY 15-33: H3400X60 (ASPH) S-12.5 MIRL

IAP

RWY 15: PAPI(P2L)—GA 3.0° TCH 27'. P-line.

RWY 33: PAPI(P2L)—GA 3.0° TCH 27'. Road.

**AIRPORT REMARKS:** Attended Oct-Mar on call, Apr-Sep dawn-dusk. For attendant other hrs call 701-549-3220. For fuel and services call 701-549-3500/3786. To confirm snow removal with arpt manager prior to use 701-549-3500/3786. Deer and birds on or invof arpt. Rwy 15 +53' trees 1650' from rwy end 150' left. Rwy 15 PAPI OTS indef. Parallel twy to Rwy 15-33 CLOSED indef. MIRL Rwy 15-33 and PAPI Rwy 15 and Rwy 33 opr dusk-0400Z†, after 0400Z‡ ACTIVATE—CTAF.

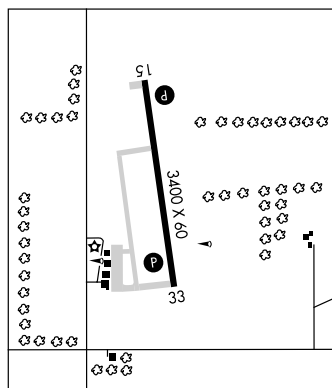
**COMMUNICATIONS:** CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 132.15

**RADIO AIDS TO NAVIGATION:** NOTAM FILE PNM.

HUMBOLDT (H) VORTAC 112.4 HML Chan 71 N48°52.15'

W97°07.03' 269° 31.4 NM to fld. 800/9E.



**WASHBURN MUNI** (5C8) 4 N UTC-6(-5DT) N47°21.18' W101°01.64'

**BILLINGS**

1905 B NOTAM FILE GFK

L-14F

RWY 08-26: H3700X60 (CONC) MIRL

RWY 08: PAPI(P2L)—GA 3.0° TCH 25'. Road.

RWY 26: PAPI(P2L)—GA 3.0° TCH 25'.

RWY 17-35: 2235X120 (TURF)

RWY 17: Road.

**AIRPORT REMARKS:** Unattended. For svc call 701-462-3796. Rwy 17-35 CLOSED winter months due to lack of snow removal. Waterfowl, blackbirds, deer and antelope on and invof arpt. Rwy 17-35 has water ponding during spring thaw or after heavy rains on south half of rwy. Confirm winter conditions with manager after major storm prior to use. Rwy 17-35 marked with dalgt boundary markers, black/white cones. ACTIVATE MIRL Rwy 08-26 and PAPI Rwy 08 and Rwy 26—CTAF. Low ints not avbl.

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BIS.

BISMARCK (L) VORW/DME 116.5 BIS Chan 112 N46°45.71' W100°39.92' 325° 38.4 NM to fld.

1841/12E. HIWAS.

**WATFORD CITY MUNI** (S25) 1 ESE UTC-6(-5DT) N47°47.80' W103°15.31'

**BILLINGS**

2111 B FUEL 100LL NOTAM FILE GFK

L-13E, 14F

RWY 12-30: H4402X75 (ASPH) S-12.5 MIRL 1.2% up SE

IAP

RWY 12: PAPI(P2L)—GA 3.0° TCH 27' Road.

RWY 30: PAPI(P2L)—GA 3.0° TCH 29' Hill.

RWY 18-36: 2401X150 (TURF)

RWY 36: P-lines.

**AIRPORT REMARKS:** Unattended. Self service 24 hr credit card fuel avbl.

Rwy 18-36 CLOSED winter months (Oct-Apr) due to lack of snow removal. Deer and antelope on or invof arpt. After winter storms confirm arpt conditions with arpt manager or City Hall, call 701-444-2523 or 570-0530. MIRL Rwy 12-30 preset on low ints dusk-0400Z†, to increase ints—CTAF, after 0400Z‡ ACTIVATE rotating bcn and PAPI Rws 12 and Rwy 30—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.125 (701) 842-4855.

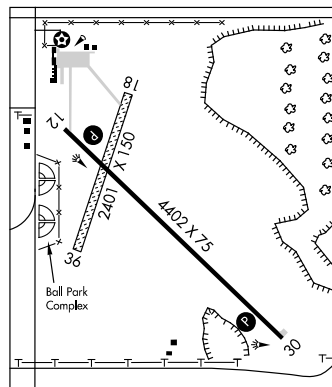
**COMMUNICATIONS:** CTAF/UNICOM 122.8

® SALT LAKE CITY CENTER APP/DEP CON 126.85

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISN.

WILLISTON (L) VORTACW 116.3 ISN Chan 110 N48°15.21'

W103°45.04' 132° 34.0 NM to fld. 2372/12E. HIWAS.



**WEST FARGO MUNI** (See FARGO)

WAAS CH <b>70717</b> <b>W12A</b>	APP CRS <b>126°</b>	Rwy Idg TDZE Apt Elev <b>4402</b> <b>2090</b> <b>2111</b>
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# RNAV (GPS) RWY 12

WATFORD CITY MUNI (S25)

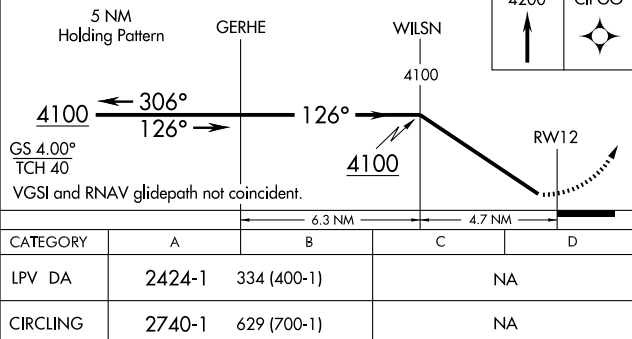
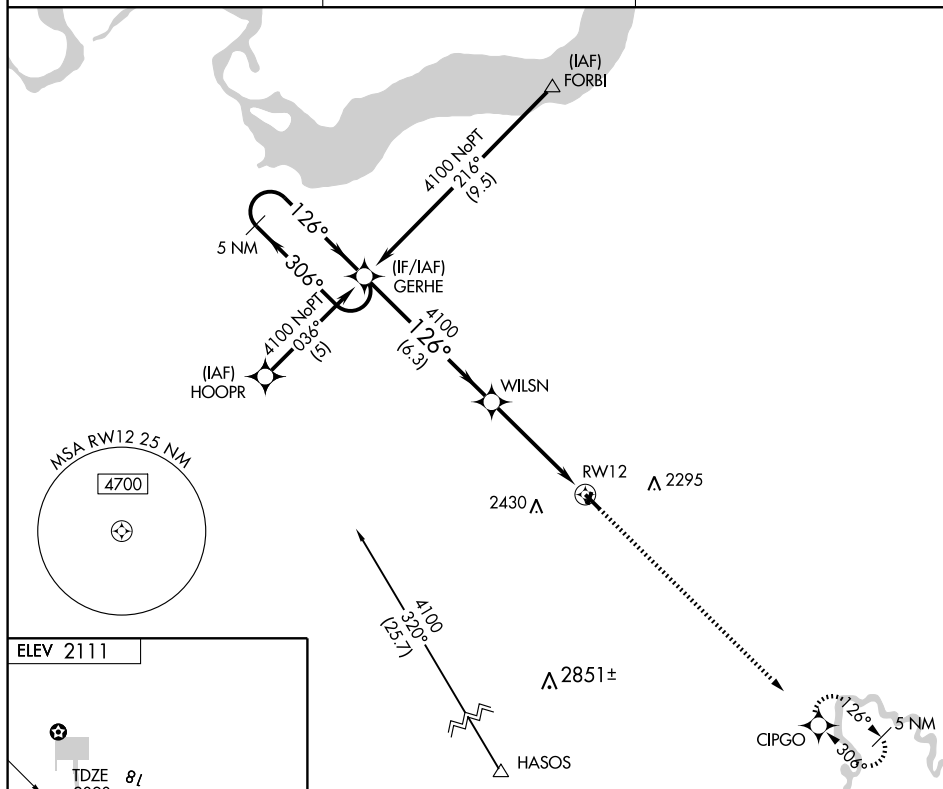
**NA** DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Williston altimeter setting and increase all DA 82 feet and all MDA 100 feet, increase LPV visibility all Cats ¼ mile. Circling requires descent on glidepath to CMDA.

MISSED APPROACH: Climb to 4200 direct CIPGO and hold.

AWOS-3  
**118.125**

SALT LAKE CENTER  
**126.85 305.2**

UNICOM  
**122.8 (CTAF)**



MIRL Rwy 12-30

WATFORD CITY, NORTH DAKOTA

Orig 03JUN10

47°48'N - 103°15'W

WATFORD CITY MUNI (S25)  
**RNAV (GPS) RWY 12**

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

WAAS CH <b>69318</b> <b>W30A</b>	APP CRS <b>306°</b>	Rwy Idg <b>4402</b> TDZE <b>2111</b> Apt Elev <b>2111</b>
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RNAV (GPS) RWY 30  
WATFORD CITY MUNI (S25)

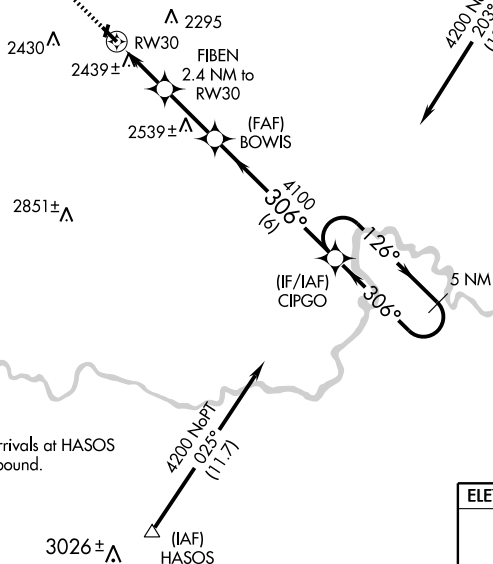
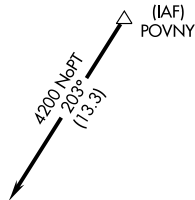
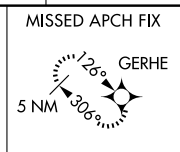
**T** DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local  
**A** NA altimeter setting not received, use Williston altimeter setting and increase all  
 DA 82 feet and all MDA 100 feet; increase LPV visibility all Cats ¼ mile.

MISSED APPROACH: Climb to 4100  
direct GERHE and hold.

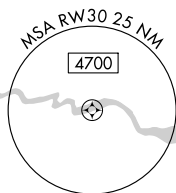
AWOS-3  
118.125

SALT LAKE CENTER  
126.85 305.2

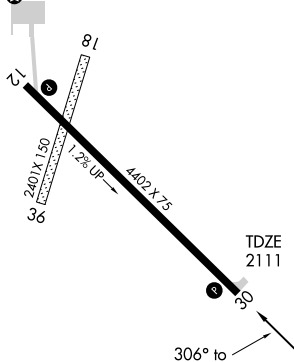
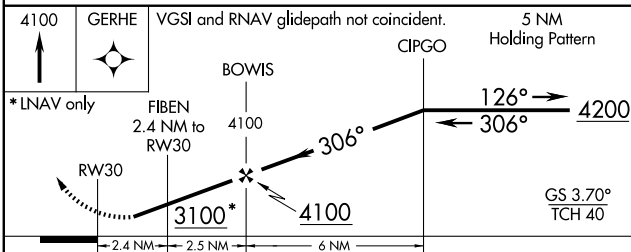
UNICOM  
122.8 (CTAF) **L**



Procedure NA for arrivals at HASOS  
on V439 southeast bound.



ELEV 2111



CATEGORY	A	B	C	D
LPV DA	2567-1¼	456 (500-1¼)	NA	
LNAV MDA	2700-1	589 (600-1)	NA	
CIRCLING	2740-1	629 (700-1)	NA	

MIRL Rwy 12-30 **L**

WATFORD CITY, NORTH DAKOTA

Orig 03JUN10

47°48'N - 103°15'W

WATFORD CITY MUNI (S25)

RNAV (GPS) RWY 30

NC-1, 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

**WESTHOPE MUNI** (D64) 0 W UTC-6(-5DT) N48°54.78' W101°02.02'

**BILLINGS**

1492 NOTAM FILE GFK

**L-14F**

**Rwy 13-31:** H3000X60 (ASPH) S-4 LIRL (NSTD)

**Rwy 13:** Berm. **Rwy 31:** Tree.

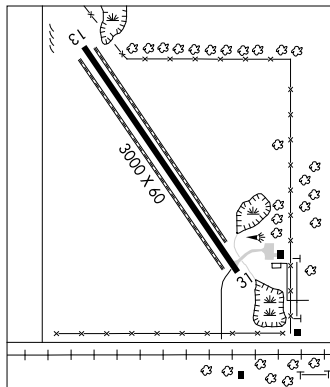
**AIRPORT REMARKS:** Unattended. Migratory birds on or near vicinity of airport. NSTD LIRL located 55' from centerline. Confirm snow removal and winter conditions before use, call 701-245-6195/6279/6409/6571. +15' road 100' inbound Rwy 31 thld crossing rwy onto twy for arpt access to hangars. Rwy 31 +35' p-line 800' fm thld 175' left, apch ratio 17:1, +30' pole 800' fm thld 175' right, apch ratio 20:1. Rwy 13-31 surface soft during spring frost. -2 ft ditch 65' L/R of Rwy 13-31 centerline parallel on both sides. Rwy 13 centerline stripe only. Rwy 31 centerline stripe only. Rwy 13-31 centerline stripe only. **ACTIVATE LIRL Rwy 13-31—CTAF.**

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MOT.

**MINOT (H) VORTACW** 117.1 MOT Chan 118 N48°15.62'

W101°17.22' 001° 40.5 NM to fld. 1691/13E. **HIWAS.**



**WEYDAHL FLD** (See KILLDEER)

**WILLISTON** N48°15.21' W103°45.04' NOTAM FILE ISN.

**BILLINGS**

(L) **VORTACW** 116.3 ISN Chan 110 124° 6.3 NM to Sloulin Fld Intl. 2372/12E. **HIWAS.**

**H-2G, L-13E**

**RCO** 123.6 (GRAND FORKS RADIO)

## WILLISTON

**SLLOULIN FLD INTL** (ISN) 2 N UTC-6(-5DT) N48°10.68' W103°38.54'

**BILLINGS**

1982 B S4 **FUEL** 100LL, JET A OX 1 TPA-2782(800) AOE Class II, ARFF Index A

**H-2G, L-13E**

NOTAM FILE ISN

**IAP**

**Rwy 11-29:** H6650X100 (ASPH-PFC) S-16, D-25 MIRL

1.3% up NW

**Rwy 11:** REIL, PAPI(P4L)—GA 3.6° TCH 37'. P-line. Rgt tfc.

**Rwy 29:** MALSR, PAPI(P4L)—GA 3.0° TCH 49'.

**Rwy 02-20:** H3453X60 (ASPH) S-13 MIRL

**Rwy 02:** REIL, PAPI(P2L)—GA 4.0° TCH 52' Pole.

**Rwy 20:** REIL, PAPI(P2L)—GA 4.0° TCH 32'. Rgt tfc.

### RUNWAY DECLARED DISTANCE INFORMATION

**Rwy 02:** TORA-3453 TODA-3453 ASDA-3453 LDA-3453

**Rwy 11:** TORA-6650 TODA-6650 ASDA-6650 LDA-6650

**Rwy 20:** TORA-3453 TODA-3453 ASDA-3453 LDA-3453

**Rwy 29:** TORA-6650 TODA-6650 ASDA-6650 LDA-6650

**AIRPORT REMARKS:** Attended Apr-Oct 1400-0300Z; Nov-Mar

1400-0100Z. For fuel after hrs call 701-577-3773/4208. Birds

and deer on and invof arpt. 165' powerline across the app end of

Rwy 11 fm 3500' to 3700' fm rwy end. Personnel and equipment

working all surfaces indef. 48 hrs PPR for unscheduled air carrier

ops with more than 30 passenger seats call arpt manager

701-774-8594. Rwy 02-20 not avbl for air carrier ops with more

than 30 passenger seats. MIRL Rwy 11-29 preset low ints dusk-dawn, to increase ints—CTAF. **ACTIVATE MIRL**

Rwy 02-20, and REIL Rwy 02 and Rwy 11, MALSR Rwy 29 and PAPI Rwy 02, Rwy 20, Rwy 11, and Rwy

29—CTAF. Flight Notification Service (ADCUS) available. For U.S. Customs call 701-770-2460/2461/2849.

**WEATHER DATA SOURCES:** ASOS 125.92 (701) 774-3124. **HIWAS** 116.3 ISN.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

**WILLISTON RCO** 123.6 (GRAND FORKS RADIO)

**SALT LAKE CENTER APP/DEP CON** 126.85

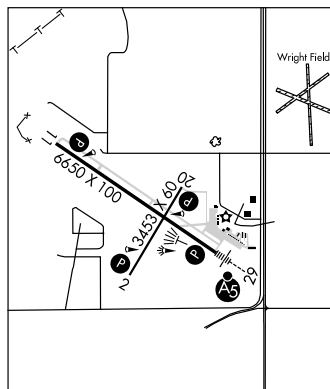
**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISN.

**WILLISTON (L) VORTACW** 116.3 ISN Chan 110 N48°15.21' W103°45.04' 124° 6.3 NM to fld. 2372/12E.

**HIWAS.**

**YUSON NDB (LOM)** 275 SF N48°07.09' W103°30.69' 292° 6.4 NM to fld. Unmonitored.

**ILS** 108.7 I-SFW Rwy 29 Class IT. LOM YUSON NDB. ILS unmonitored.



LOC I-SFW	APP CRS	Rwy Idg	<b>6650</b>
<b><u>108.7</u></b>	<b>295°</b>	TDZE	<b>1930</b>
		Apt Elev	<b>1982</b>

ILS or LOC RWY 29  
WILLISTON/ SLOULIN FIELD INTL (ISN)

**▼** ADF or DME required. When local altimeter setting not received, use Sidney altimeter setting and increase all DA 84 feet and all MDA 100 feet, increase S-LOC and Circling Cat C and D visibility  $\frac{1}{4}$  mile. For inoperative MALSR when using Sidney altimeter setting, increase S-ILS 29 all Cats visibility  $\frac{1}{2}$  mile.

MALSR



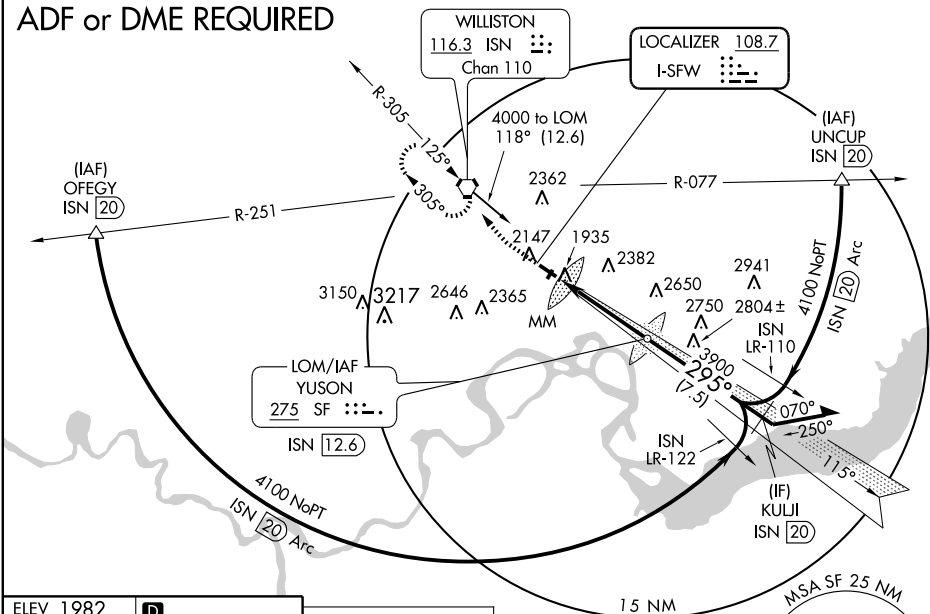
**MISSED APPROACH:** Climb to 2500 then climbing right turn to 4000 direct JSN VORTAC and hold.

ASOS  
125.92

SALT LAKE CITY CENTER  
126.85 305.2

UNICOM  
122.8 (CTAF) **L**

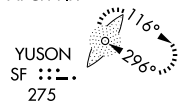
ADF or DME REQUIRED



ELEV 1982

**D**

ALTERNATE MISSED  
APCH FIX



250C

4000

10



LOM

Remain  
within 10 NM



---

1

385

$$\leq 4000$$

— 29

\_\_\_\_\_

GS 3.00

REIL Rwy 20

REIL Rwys 2 and 11 **L**

MIRL Rwy 2-20 and 11-29 L

FAF to MAP 5.9 NM

Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

WILLISTON, NORTH DAKOTA

Amdt 4 29JUL10

WILLISTON/ SLOULIN FIELD INTL (ISN)

ILS or LOC RWY 29

NC-1. 26 AUG 2010 to 23 SEP 2010

NC-1, 26 AUG 2010 to 23 SEP 2010

48°11'N - 103°39'W



LOM SF	APP CRS	Rwy Idg	<b>6650</b>
<b><u>275</u></b>	<b>296°</b>	TDZE	<b>1930</b>
		Apt Elev	<b>1982</b>

NDB RWY 29

WILLISTON/ SLOULIN FIELD INTL (ISN)

**T**  
**A** NA

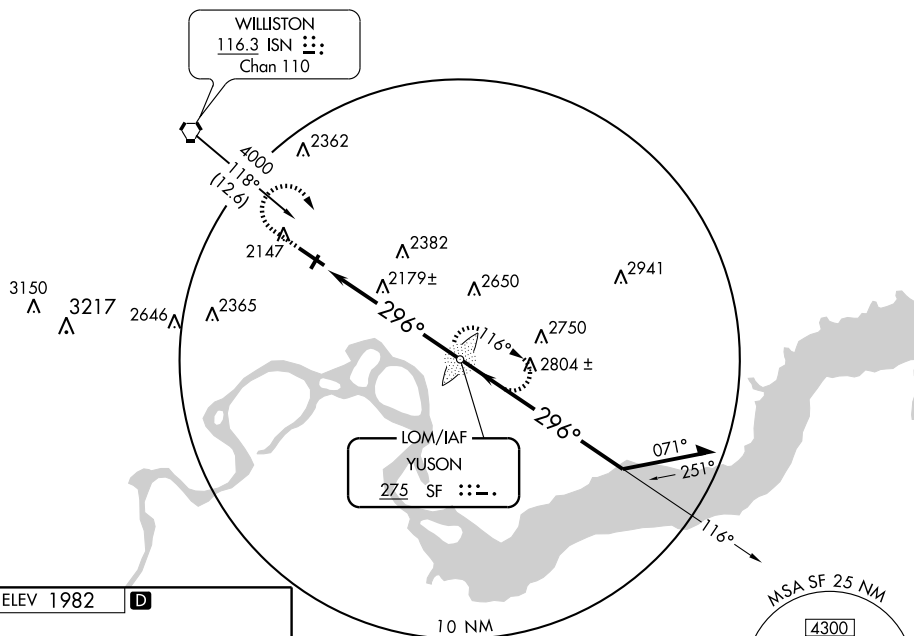
When local altimeter setting not received, use Sidney altimeter setting and increase all MDA 100 feet, increase S-29 and Circling Cats C/D visibility  $\frac{1}{4}$  mile.

MALSR

**MISSED APPROACH:** Climb to 3000 then climbing right turn to 4000 direct YUSON LOM and hold.

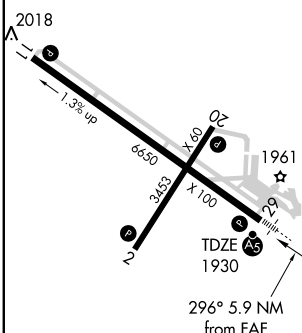
ASOS  
125.92

SALT LAKE CITY CENTER  
126.85 305.2

UNICOM  
122.8 (CTAF) **L**

ELEV 1982

**D**



REIL Rwy 20

REIL Rwys 2 and 11 **L**

MIRL Rwy 2-20 and 11-29 L

FAF to MAP 5.9 NM

Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

WILLISTON, NORTH DAKOTA

Amdt 3 29JUL10

48°11'N - 103°39'W

WILLISTON/ SLOULIN FIELD INTL (ISN)

NDB RWY 29

NC-1. 26 AUG 2010 to 23 SEP 2010

APP CRS **115°**  
 Rwy Idg **6650**  
 TDZE **1982**  
 Apt Elev **1982**

# RNAV (GPS) RWY 11

WILLISTON/SLOULIN FIELD INTL (ISN)

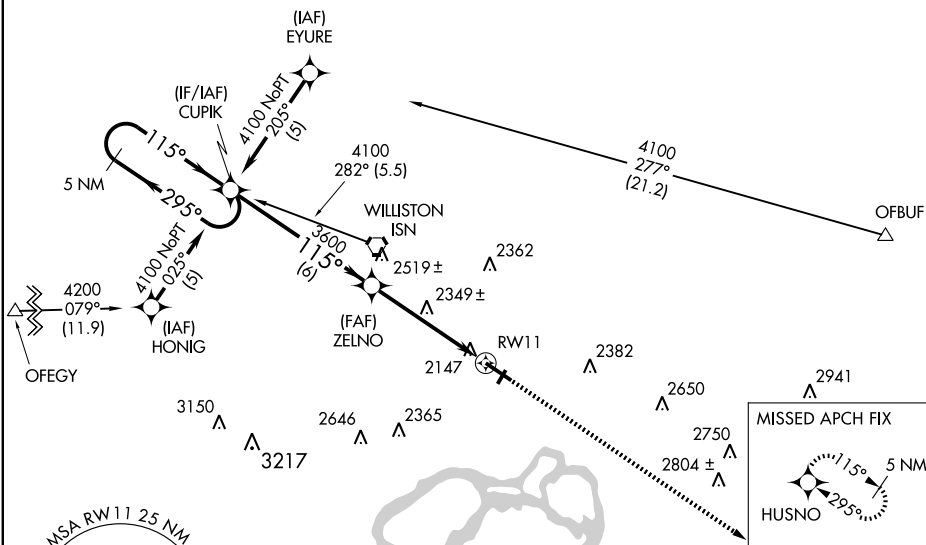
**T** DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.  
**A** When local altimeter setting not received, use Sidney altimeter setting and increase all MDA 100 feet and all Cat C and Cat D visibilities ¼ mile.

MISSED APPROACH: Climb to 4100 direct HUSNO and hold.

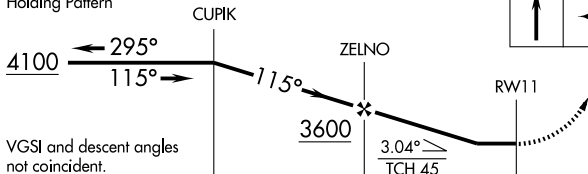
ASOS  
**125.92**

SALT LAKE CITY CENTER  
**126.85 305.2**

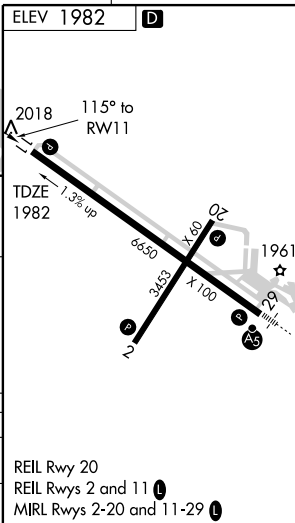
UNICOM  
**122.8 (CTAF) 0**



5 NM  
Holding Pattern



CATEGORY	A	B	C	D
RNAV MDA	2600-1	618 (700-1)	2600-1¾ 618 (700-1¾)	2600-2 618 (700-2)
CIRCLING	2600-1	618 (700-1)	2600-1¾ 618 (700-1¾)	2620-2 638 (700-2)



WAAS CH <b>73017</b> <b>W29A</b>	APP CRS <b>295°</b>	Rwy Idg TDZE Apt Elev	<b>6650</b> <b>1930</b> <b>1982</b>
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# RNAV (GPS) RWY 29

WILLISTON/SLOULIN FIELD INTL (ISN)

**▼** Baro-VNAV NA when using Sidney altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -18°C (0°F) or above 45°C (113°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Sidney altimeter setting and increase all DA 84 feet and all MDA 100 feet, increase LNAV Cat C visibility ¼ mile and LNAV Cat D visibility ½ mile, increase LNAV/VNAV all Cats visibility ½ mile, and Circling Cat C and D visibility ¼ mile. VDP NA with Sidney altimeter setting. For inoperative MALSRS when using Sidney altimeter setting, increase LPV all Cats visibility ½ mile.



**MISSED APPROACH:** Climb to 4100 direct CUIPK and hold.

ASOS  
**125.92**

SALT LAKE CITY CENTER  
**126.85 305.2**

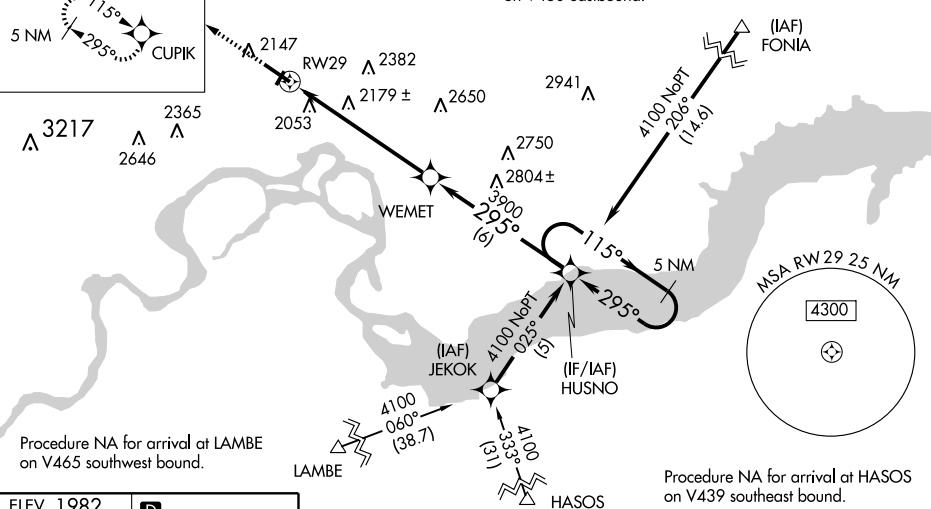
UNICOM  
**122.8 (CTAF) 0**

**MISSED APCH FIX**

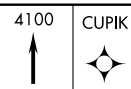
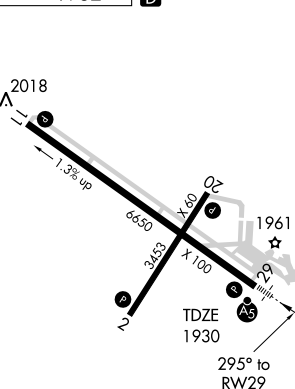


△ 2362

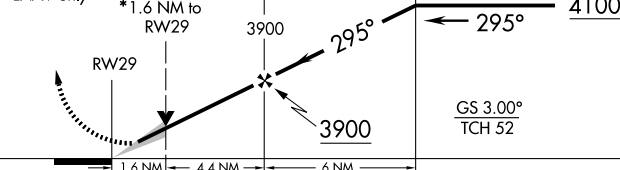
Procedure NA for arrival at FONIA on V430 eastbound.



ELEV 1982



\*LNAV only



CATEGORY	A	B	C	D
LPV DA	2130-½		200 (200-½)	
LNAV/VNAV DA	2352-1		422 (500-1)	
LNAV MDA	2440-½ 510 (600-½)		2440-1 510 (600-1)	
CIRCLING	2560-1 578 (600-1)	2580-1 598 (600-1)	2600-1¾ 618 (700-1¾)	2620-2 638 (700-2)

VORTAC ISN <b><u>116.3</u></b> Chan <b>110</b>	APP CRS <b>303°</b>	Rwy Idg <b>6650</b> TDZE <b>1930</b> Apt Elev <b>1982</b>
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VOR/DME RWY 29  
WILLISTON/SLOULIN FIELD INTL (ISN)

**T** Inoperative table does not apply. VDP NA when using Sidney altimeter setting. When local altimeter setting not received, use Sidney altimeter setting and increase all MDA 100 feet. Increase S-29 Cat C visibility ¼ mile and Cat D ½ mile, increase Circling Cats C/D visibility ¼ mile.

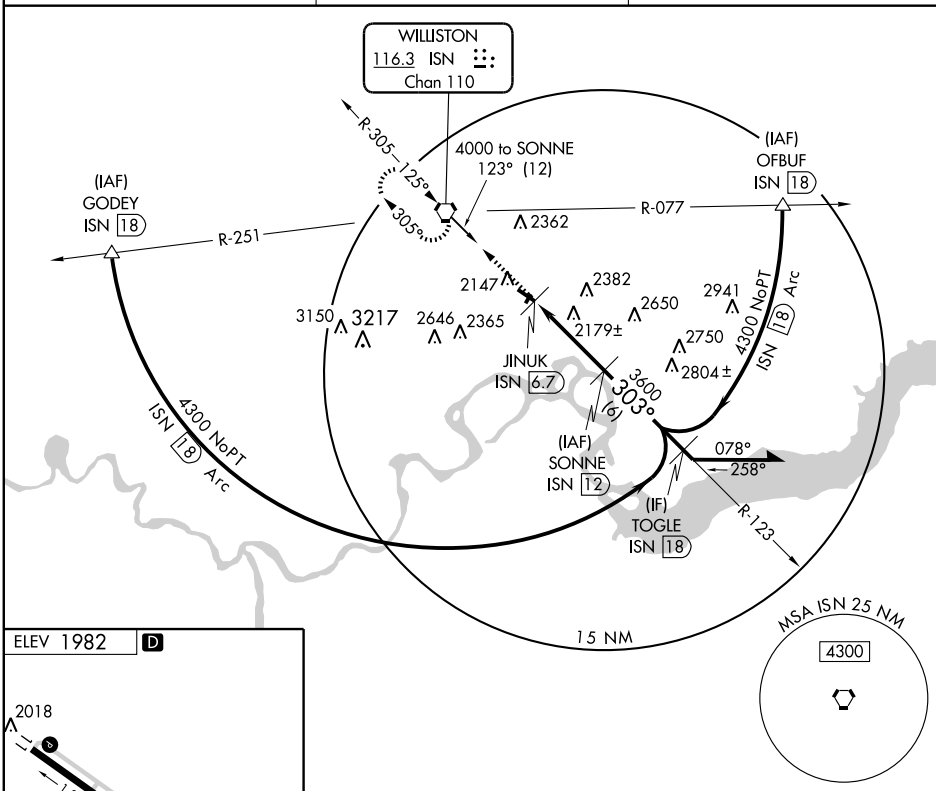
MALSR



**MISSED APPROACH:**  
Climb to 4000 direct  
ISN VORTAC and hold.

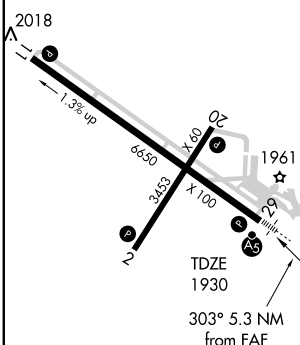
ASOS  
125.92

SALT LAKE CITY CENTER  
126.85 305.2

UNICOM  
122.8 (CTAF) **L**

ELEV 1982

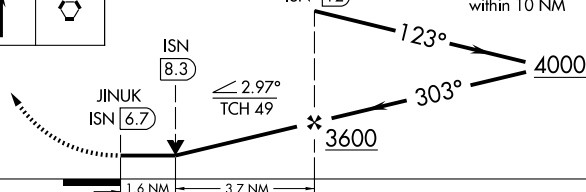
**D**



4000

SONNE  
ISN 12

Remain  
within 10 NM



CATEGORY	A	B	C	D
S-29	2440-1 510 (500-1)		2440-1½ 510 (500-1½)	
CIRCLING	2560-1 578 (600-1)	2580-1 598 (600-1)	2600-1¾ 618 (700-1¾)	2620-2 638 (700-2)

WILLISTON, NORTH DAKOTA  
Amdt 4 29JUL10

48°11'N - 103°39'W

WILLISTON/SLOULIN FIELD INTL (ISN)  
VOR/DME RWY 29

NC-1. 26 AUG 2010 to 23 SEP 2010

VORTAC ISN <b><u>116.3</u></b> Chan <b>110</b>	APP CRS <b>125°</b>	Rwy Idg <b>6650</b> TDZE <b>1982</b> Apt Elev <b>1982</b>
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VOR RWY 11

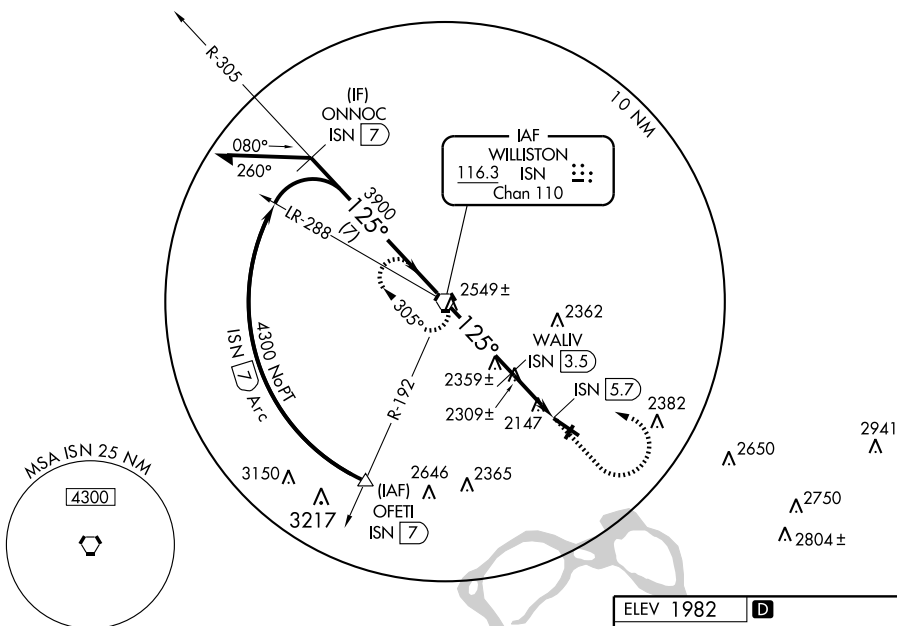
WILLISTON/ SLOULIN FIELD INTL (ISN)

**T** Visibility reduction by helicopters NA. When local altimeter setting not received, use Sidney altimeter setting and increase all MDA 100 feet, increase S-11 and Circling Cats C and D visibility  $\frac{1}{4}$  mile, increase WALIV FIX minimums S-11 Cats C and D visibility  $\frac{1}{2}$  mile and Circling Cats C and D visibility  $\frac{1}{4}$  mile.

**MISSED APPROACH:** Climb to 3000 then climbing left turn to 4000 direct ISN VORTAC and hold.

ASOS  
125.92


SALT LAKE CITY CENTER  
126.85 305.2

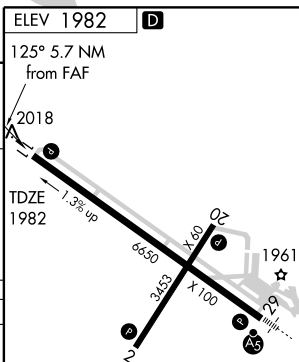
UNICOM  
122.8 (CTAF) **L**

Remain within 10 NM

4100 125°  
VGSi and descent angles  
not coincident.

W/  
ISN  
3.11°  
TCH 45  
\*2620

3000 ↑	4000 ↖	ISN 
ISN 5.7	* 2720 when using Sidney altimeter setting.	



CATEGORY	A	B	C	D
S-11	2620-1 638 (700-1)		2620-1 <sup>3</sup> / <sub>4</sub> 638 (700-1 <sup>3</sup> / <sub>4</sub> )	2620-2 638 (700-2)
CIRCLING	2620-1 638 (700-1)		2620-1 <sup>3</sup> / <sub>4</sub> 638 (700-1 <sup>3</sup> / <sub>4</sub> )	2620-2 638 (700-2)
WALIV FIX MINIMUMS				
S-11	2560-1 578 (600-1)		2560-1 <sup>1</sup> / <sub>2</sub> 578 (600-1 <sup>1</sup> / <sub>2</sub> )	2560-1 <sup>3</sup> / <sub>4</sub> 578 (600-1 <sup>3</sup> / <sub>4</sub> )
CIRCLING	2560-1 578 (600-2)	2580-1 598 (600-2)	2600-1 <sup>3</sup> / <sub>4</sub> 618 (700-1 <sup>3</sup> / <sub>4</sub> )	2620-2 638 (700-2)

REIL Rwy 20  
REIL Rwys 2 and 11 **L**  
MIRL Rwys 2-20 and 11-29 **L**

FAF to MAP 5.7 NM

Knots	60	90	120	150	180
Min:Sec	5:42	3:48	2:51	2:17	1:54

WILLISTON, NORTH DAKOTA  
Amdt 13 29JUL10

48°11'N - 103°39'W

WILLISTON/ SLOULIN FIELD INTL (ISN)

VOR RWY 11

**NC-1, 26 AUG 2010 to 23 SEP 2010**

NC-1. 26 AUG 2010 to 23 SEP 2010